User Manual

Model: FI8909W

Indoor Wireless IP Camera

Color: Black

Color: White

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1 Overviews

FOSCAM FI8909W is an integrated wireless IP Camera with a color CMOS sensor. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or over the Internet.

The basic function of IPCAM is to provide remote video on the IP network. High quality video images are transmitted at up to 30fps on the LAN/WAN by using MJPEG hardware compression technology.

The WEB server within IPCAM supports various internet browsers including Internet Explorer. Therefore the management and maintenance of your device is simplified, by using the network to remotely configure, start-up, and upgrade the firmware of your IPCAM. You can use IPCAM to remotely monitor your home or your office. Controlling the IPCAM and managing images is simplified by using the provided web interface across the network utilising either wired or wireless connectivity.

FOSCAM provides Phone APPs for Android and iPhone users, please search “Foscam ip cam viewer” and install it through APP Store, then you can view your camera directly as a computer.

1.1 Key Features

- Powerful high-speed video protocol processor
- High Definition Color CMOS Sensor
- 300K Pixels
- IR night vision (Range: 5m)
- Optimized MJPEG video compression for transmission
- Multi-level users’ management and passwords definition
- Embedded Web Server for users to visit by IE
- Wi-Fi compliant with wireless standards IEEE 802.11b/g/n
- Embedded FOSCAM domain name
- Supports Dynamic IP (DDNS) and UPnP LAN and Internet (ADSL, Cable Modem)
- Motion and Sound detection activates alarm
- Supports image snapshot
- Supports multiple network protocols: HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP
- Supports WPS
- Supports WEP/WPA/WPA2 encryption
- Supports Daylight Saving Time
- Supports MSN
- Supports Gmail as sender on mail service settings
- Supports audio on Firefox, Google Chrome and Safari
- Providing Phone APPs for Android and iPhone users

● Providing Central Management Software to manage or monitor multi-cameras

1.2 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

1.3 Packing Contents

● IPCAM×1	● CD×1
● Wi-Fi Antenna×1 (only available for wireless model)	● Quick Installation Guide×1
● DC Power Supply×1	● Warranty Card×1
● Mounting bracket×1(option)	● Network Cable×1

1.4 Physical Description

Front Panel

Figure 1.1

1 Network Light: The LED will blink when plug the power
2 Power Light: If the power adapter works well, the light will turn on

3 WIFI Antenna: Wireless Antenna

4 Infrared LED: 5 IR LEDs

5 LENS: CMOS sensor with fixed focus lens

6 Microphone: Built-in microphone

Back View

Figure 1.2

LAN: RJ-45/10-100 Base T
Power: DC 5V/2A Power supply

Bottom View

There are up to three labels located on the body of the camera; this is an important feature of original Foscam cameras. If your camera does not have labels as shown in Figure 1.3 ,it may be a clone one. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

Figure 1.3

Reset button:

1) Press and hold down the RESET BUTTON for 10 seconds. when released the IP camera will be reset back to factory default settings. You must power on the camera before reset.

2) Press and hold down the RESET BUTTON about 4 seconds, then press the WPS button on the router, then you can use the WPS function. (For more details: please read Wireless Settings in the User Manual)

2 Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

2.1 Login Window

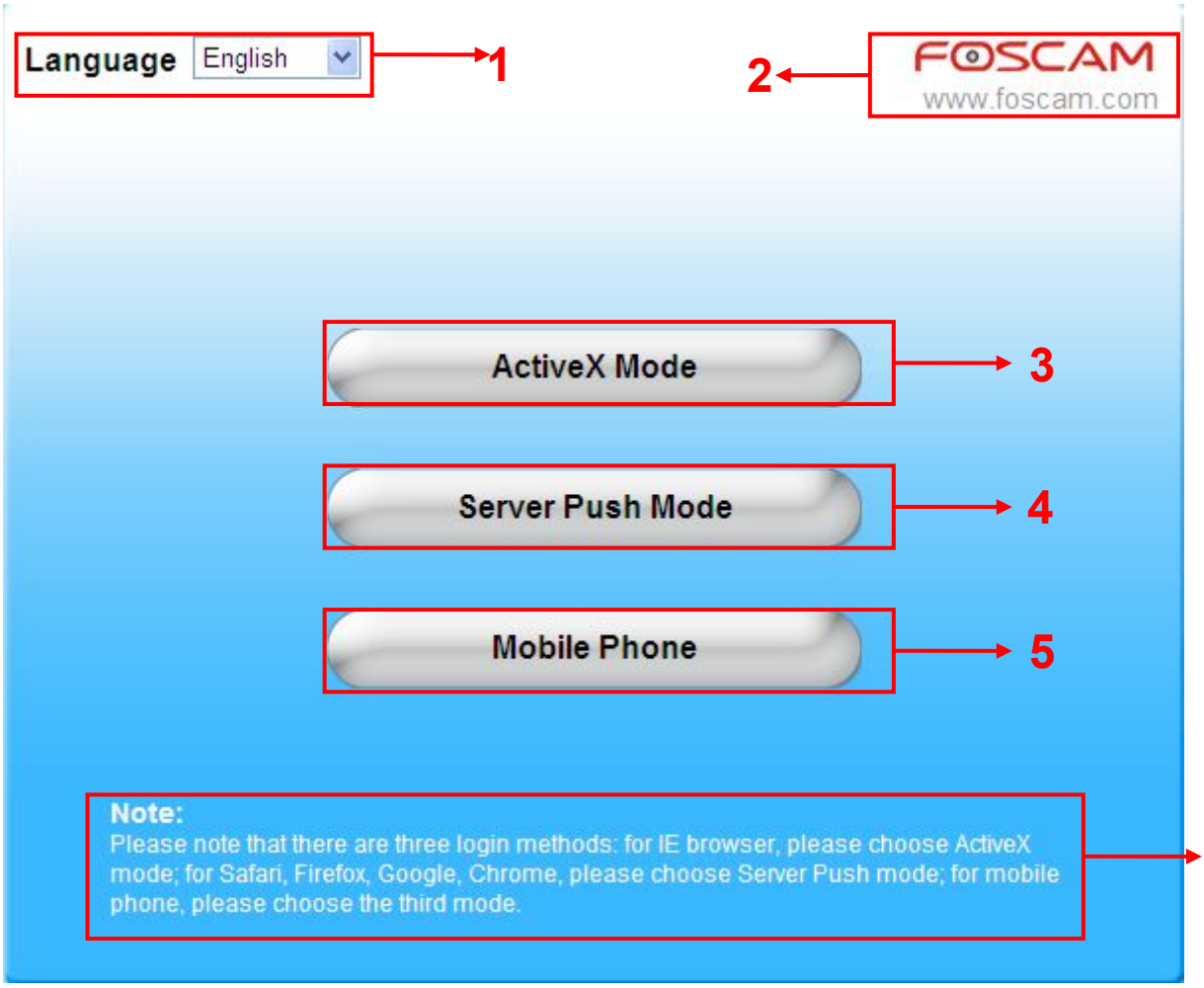


Figure 2.1

Please check the login window above, it was divided to 6 sections from no. 1 to 6.

Section1 Select Language

FOSCAM camera supports up to multi-languages, such as English, Spanish, Deutsch and so on. You can select the language you need via pull down the dropdown toolbar and click on the language to switch.

Section2 FOSCAM Website Link

There is an access link to Foscam website homepage, if you need tech support you can contact Foscam directly.

Section3 ActiveX Mode

If your PC is windows based OS, such as Windows XP, Windows7, Windows Vista and you are using IE-based browsers like IE6, IE7, IE8, please choose IE ActiveX Mode login mode.

Section4 Server Push Mode

If you are using non-IE based browser, like Firefox, Safari, Google Chrome please choose Server Push Mode.

Section5 Mobile Phone

If you are using the Mobile to access the camera, here you need to select Mobile Phone login mode.

Section6 Note

Note that when you login the camera, please select the corresponding login mode.

2.2 Surveillance Window

Select the ActiveX mode and you will enter the surveillance window.

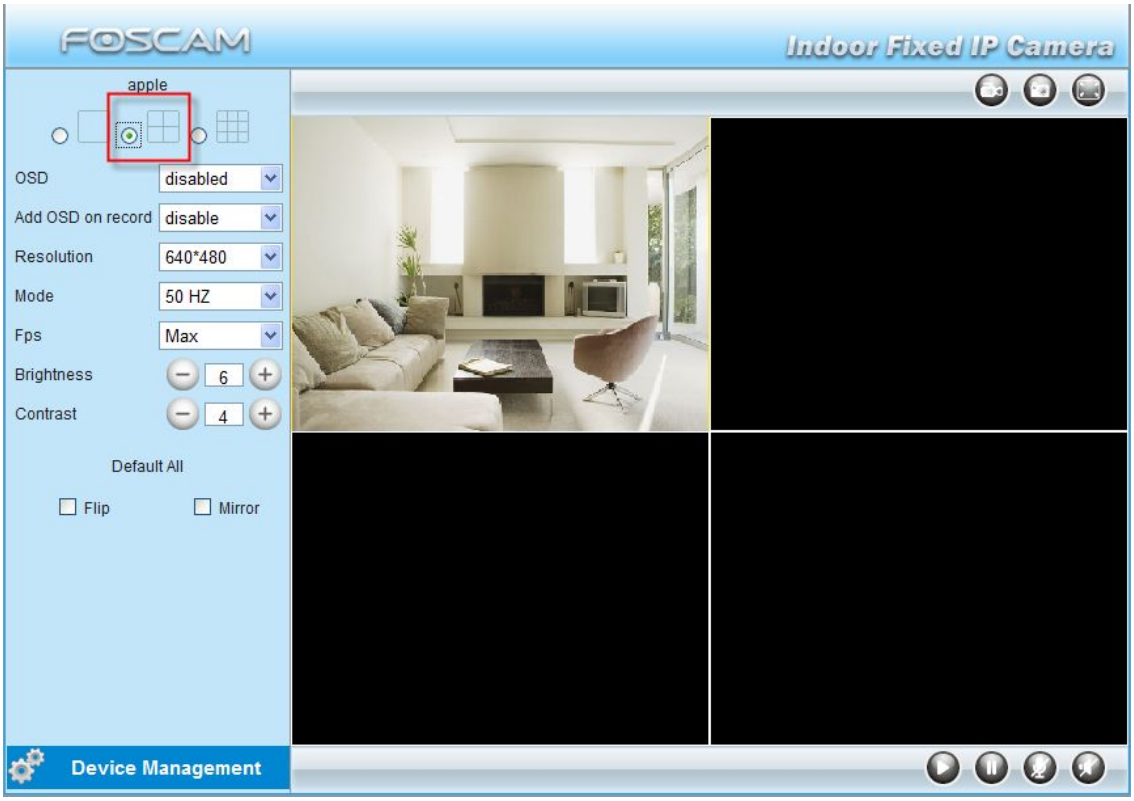
Figure 2.2

Section1 Device Name

Default device name is Anonymous. You can define a name for your camera as you like (Please go to chapter 3.1 and read how to set it)

Section2 Multi-Device Window

The firmware inside the camera supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-device setting (read chapter 3.5).



. Figure 2.3

Section3 Image Parameters Settings

OSD

OSD is used to add timestamp on the video. There are five text colors to choose from: Black, red, yellow, white, blue.

Add OSD on record

Select this option if you want to add a timestamp to recordings.

Resolution

1) 320x240-------QVGA
2) 640x480-------VGA

There are two resolutions, the bigger one (VGA) is 640x480 pixels, and the smaller one (QVGA) is 320x240 pixels. The bigger the resolution, the better of the image quality is, but the lower the frame rate is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution QVGA 320x240.

Mode

1) 50HZ ---------Indoor surveillance (Region: Europe, China)
2) 60HZ ---------Indoor surveillance (Region: USA, Canada)
3) Outdoor-------Outdoor surveillance (Region: All over the world)

There are three options within the menu of Mode: 50HZ, 60HZ and Outdoor. It depends on the frequency of the electricity and surveillance model (indoors & outdoor). Please choose outdoor mode, when the camera was installed outside.

Fps

1) Max---------- Maximum frame rate
2) 20fps, 15fps, 10fps, 5fps,4fps,3fps,2fps,1fps, 5fps, 1fps ,1/2fps,1/3fps,1/4fps,1/5fps------- customized frame rate

You can choose option within the menu of Fps to adjust the frame rate. It is often used in LAN network when you want to lower the frame rate, so that you can save more bandwidth.

Brightness

Default parameter is 6, you can adjust the brightness of the image by clicking plus or minus button.

Contrast

Default parameter is 4, you can adjust the contrast of the image by clicking plus or minus button.

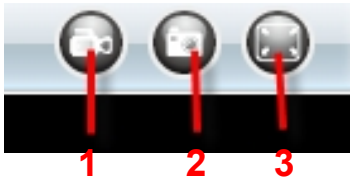
Flip & Mirror

You can flip the image by enabling Flip button, or mirror the image by enabling Mirror button.

Section4 Device Management

Device Management ------Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel.

Section5 Record & Snapshot & Full Screen Buttons

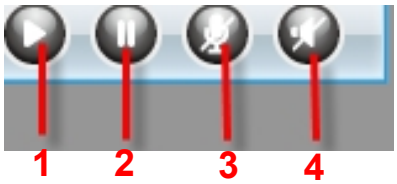


1------Record Button Click it and it pop-up a path-setting window, you can select the storage path and the record file name. At the same time the record icon changes to , Click it again and stop recording.

2------Snapshot Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

3------Full Screen Click it to make full-screen, or you can double click the surveillance screen to make full-screen.

Section6 Play/Stop/ Talk and Audio Buttons



1------Play Click it to play the video of the camera

2------Stop Click it to stop the video of the camera

3------ Talk Button Click the talk icon , and the icon changes to , then talk through your computer's microphone which will transmit through the camera's speaker**.** People will hear your talking through the camera's built-in speaker. Click the icon again and stop talking.

4------Audio Button Click the audio icon , and it changes to , then you will hear sound captured by the camera's built-in microphone. You may need to plug in earphones or enable the computer speakers to hear from the camera's microphone.

NOTE:

Record and multi-device function are controlled by ActiveX controller, therefore Firefox or Google Chrome, Safari browsers will not allow these functions.

For Firefox, Google Chrome, Safari, you should select the Server Push Mode and you can see the following screen:

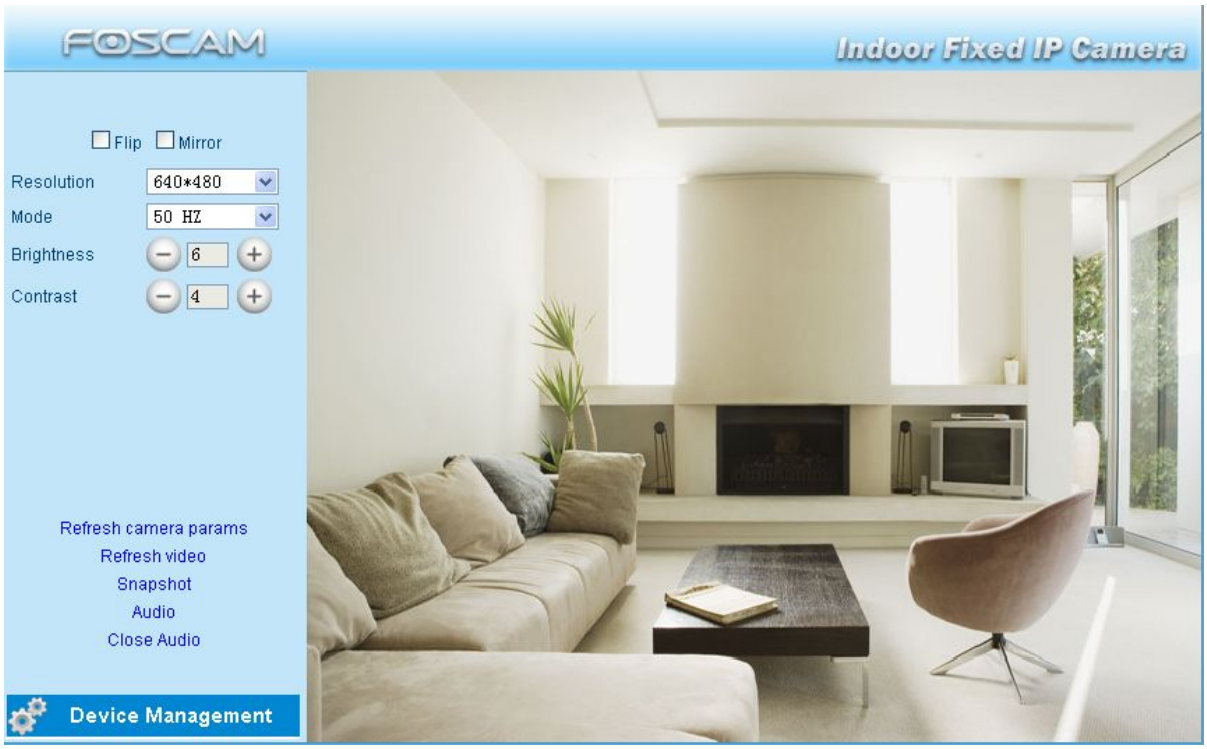


Figure 2.4

For the first time using audio, you need to download and install VLC plug-in, Click Audio, and you can see the download website.

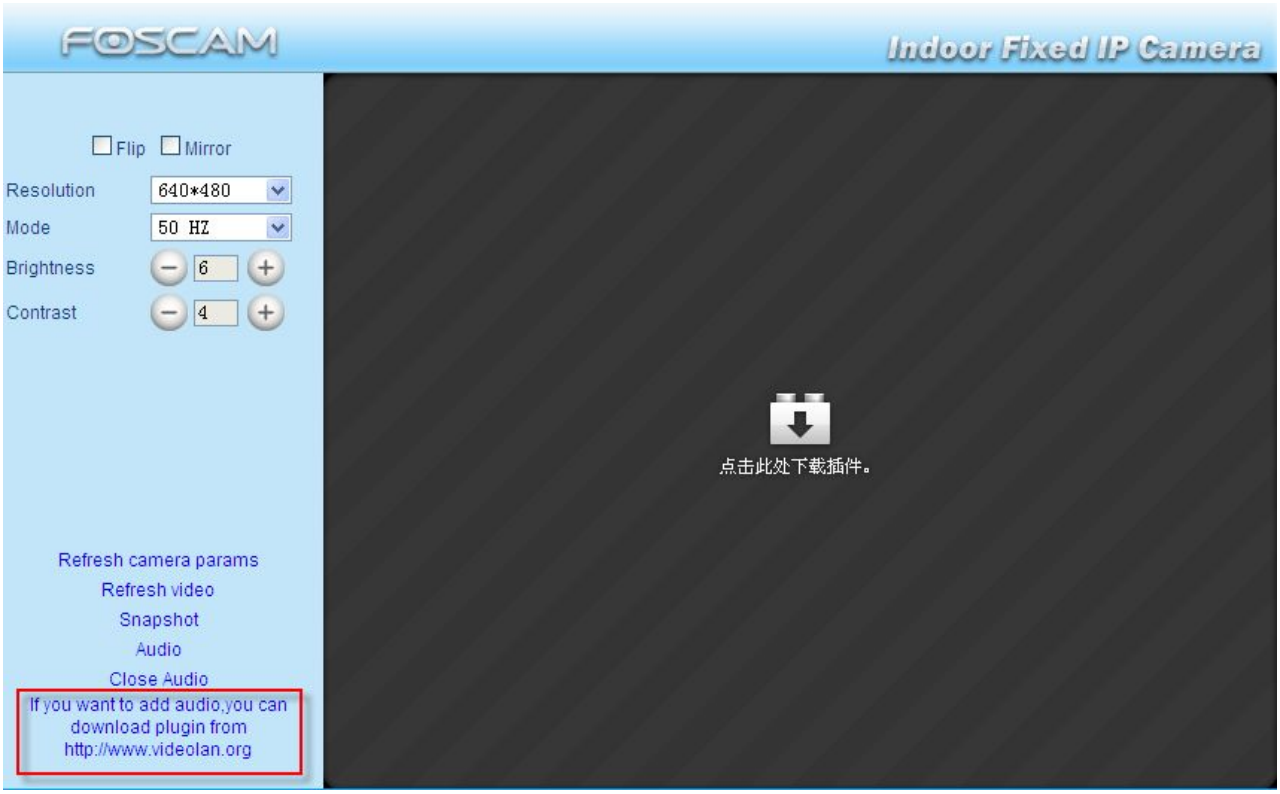


Figure 2.5

During the installation, you must select Mozilla plugin as in Figure 2.6.

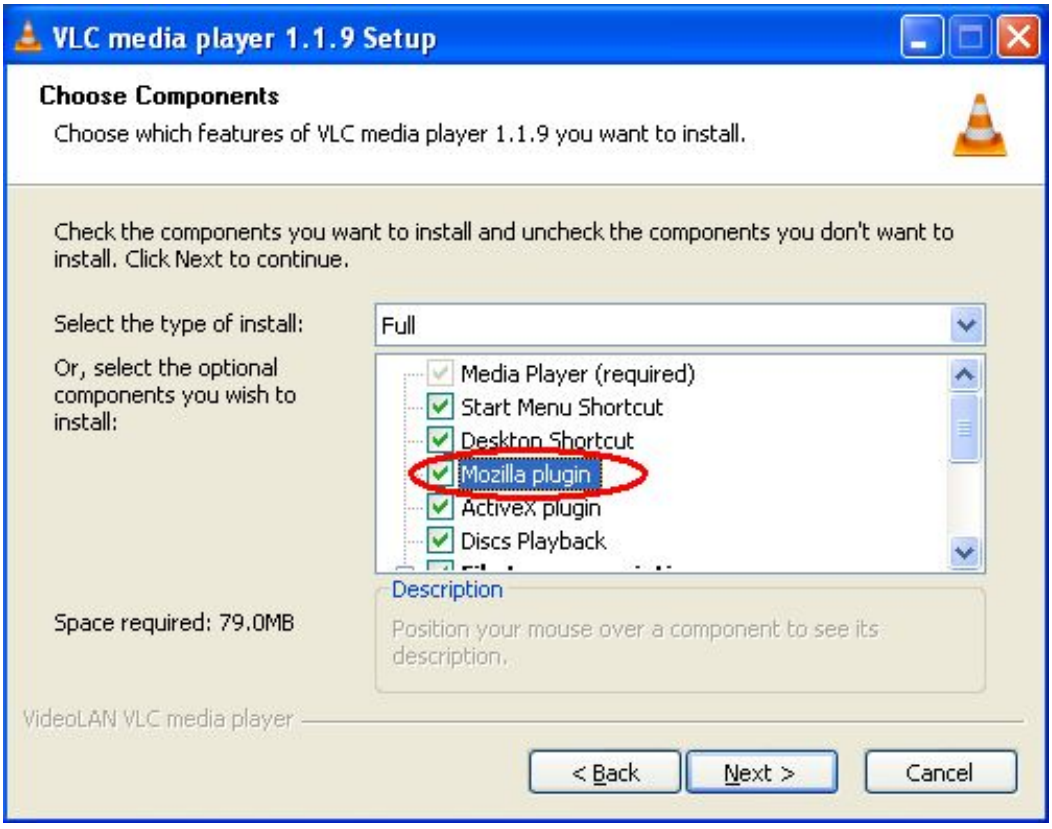

VLC media player 1.1.9 Setup
Choose Components
Choose which features of VLC media player 1.1.9 you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select the type of install:
Full
Or, select the optional components you wish to install:
Media Player (required)
Start Menu Shortcut
Desktop Shortcut
Mozilla plugin
ActiveX plugin
Discs Playback
Description
Position your mouse over a component to see its description.
Space required: 79.0MB
VideoLAN VLC media player
< Back
Next >
Cancel

Figure 2.6

3 Advanced Camera Settings

Click the bar “Device Management”, goes to Administrator Control Panel to make advanced camera settings.

3.1 Device Status

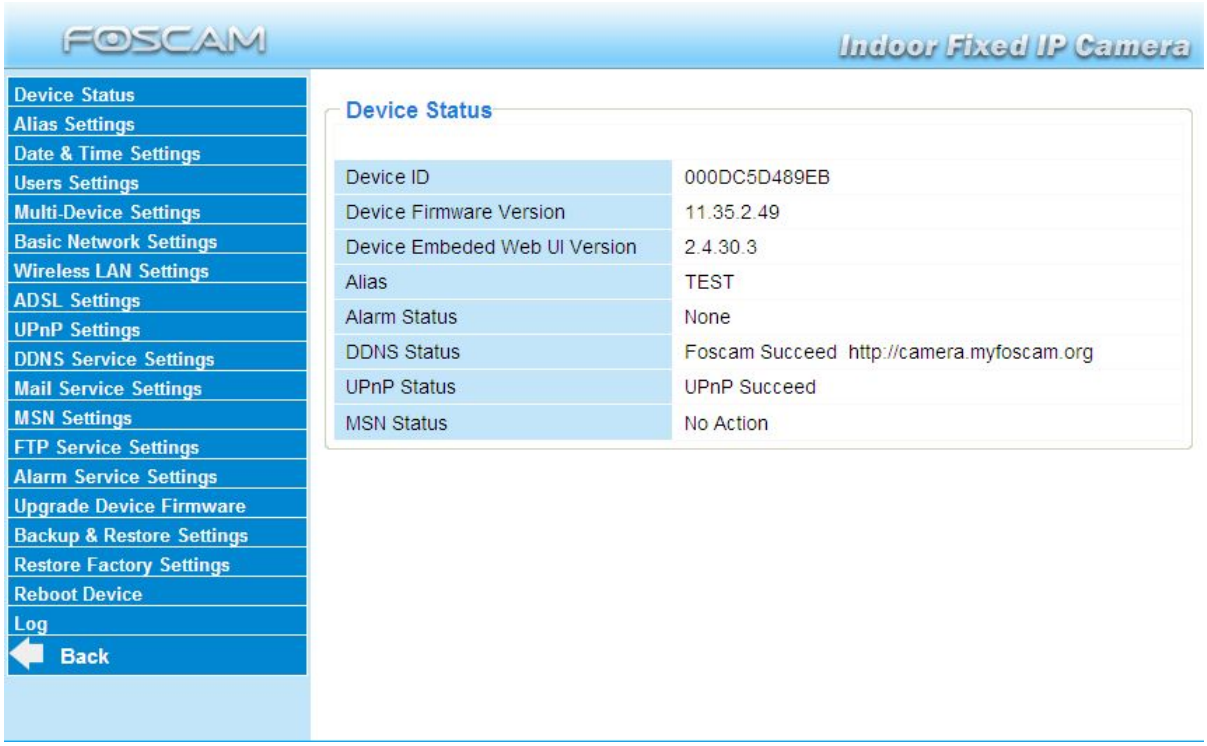


Figure 3.1

1------Device ID MAC ID of the camera by wired connection

2-----Device Firmware Version System Firmware version of the camera

3-----Device Web UI Version Web UI firmware version of the camera

4-----Alias Name of the camera

5-----Alarm Status The status of Alarm Service Setting

6-----DDNS Status The status of DDNS Setting

7-----UPnP Status The status of UPnP Setting

8-----MSN Status The status of MSN Setting

Another Way:

Double click the the icon “IP Camera.exe”

, select the camera IP, right click and select the Basic Properties, you can also see the Firmware Version and MAC Address, such as the

following screen:

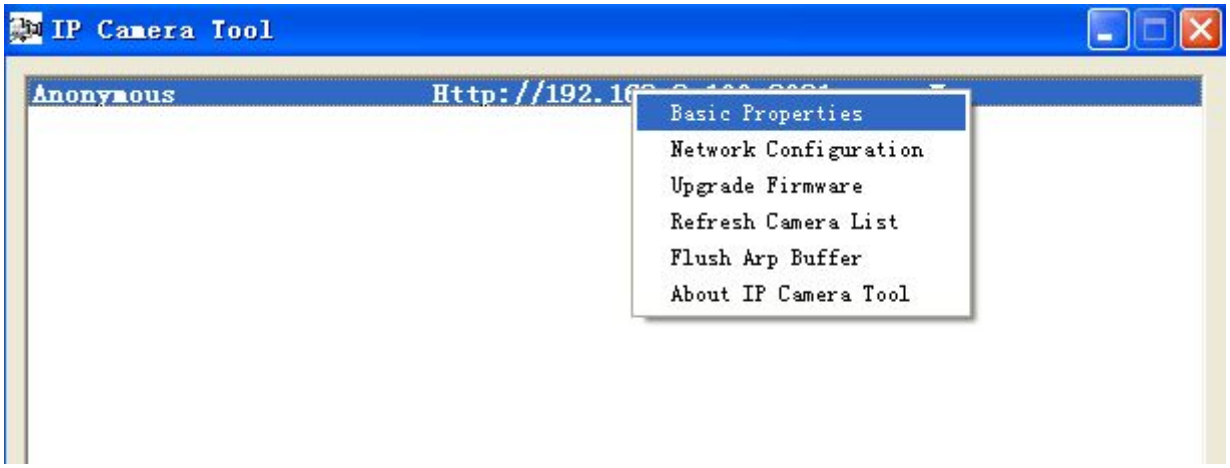


Figure 3.2

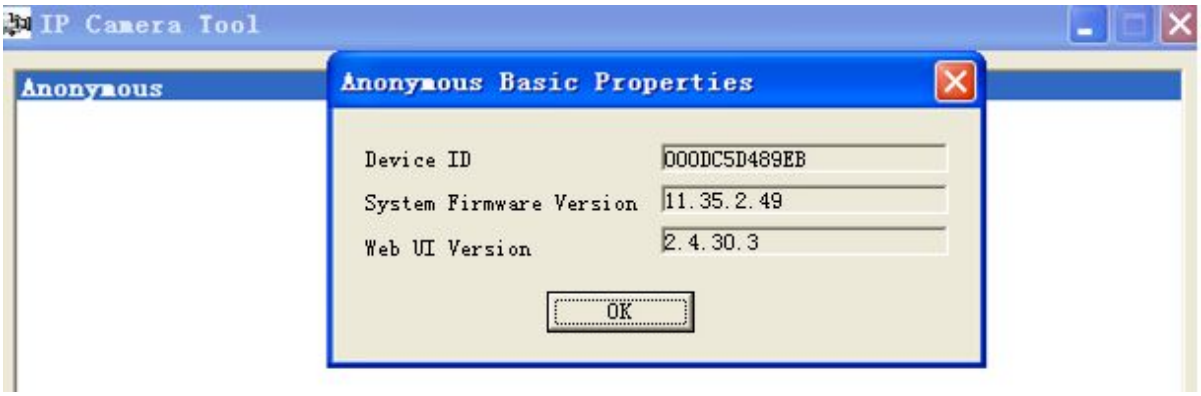


Figure 3.3

3.2 Alias Settings

Default alias is Anonymous. You can define a name for your camera here such as apple. Click **Submit** to save your changes. The alias name supports special characters.

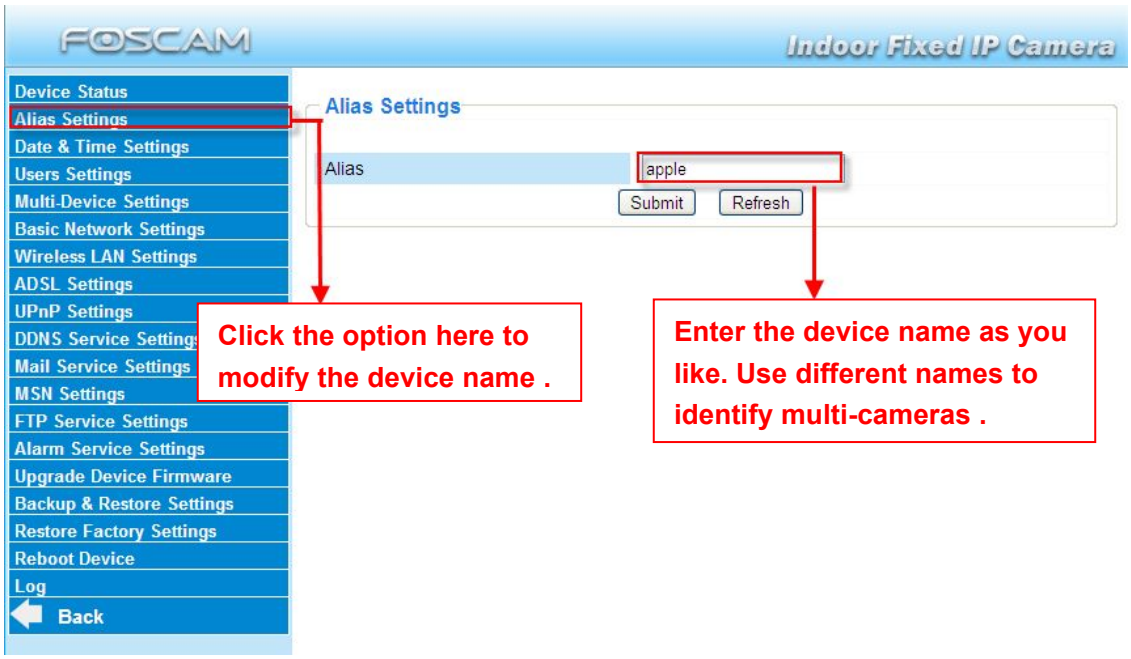


Figure 3.4

3.3 Date & Time Settings

Choose the time zone of your country. You can choose **Sync with NTP Server** or **Sync with PC Time**. If your country implements the **Daylight Saving Time**, that option can also be selected.

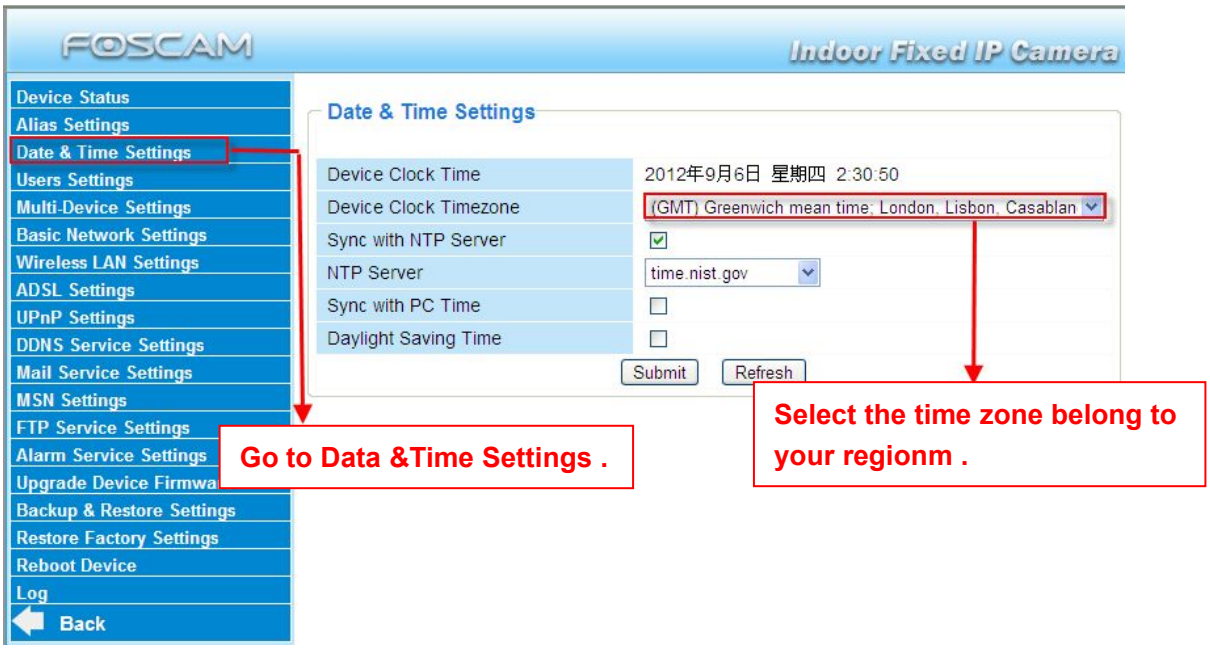


Figure 3.5

3.4 User Settings

Here you can create users and set permission levels, **visitor**, **operator** or **administrator**. Click **Submit** to save these settings. The camera will reboot.

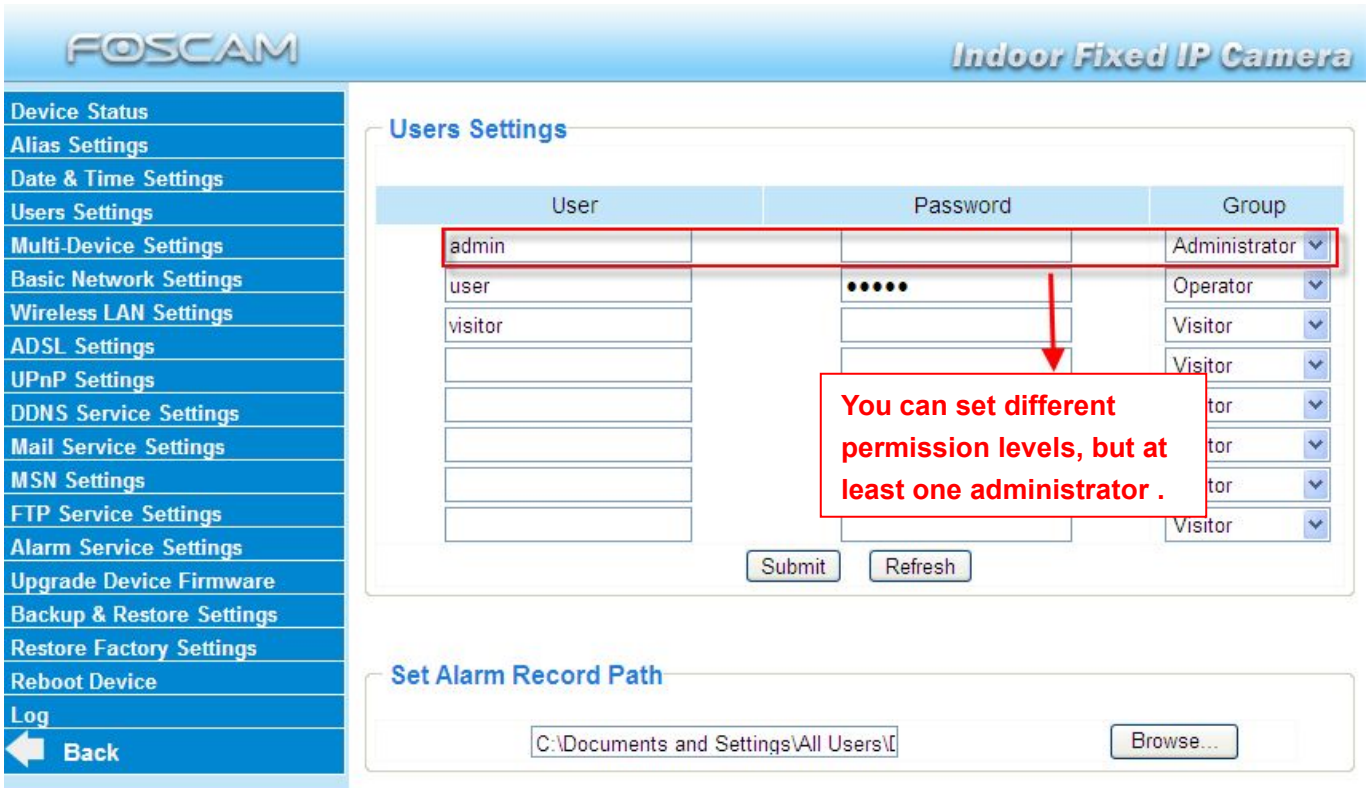


Figure 3.6

Here you can also set one important file locations for the camera, the **Alarm Record Path**. Simply click **Browse** and choose the path to the required folder.

The **Alarm Record Path** location is used to store automatically recorded files when the camera is activated by motion or sound. (See set motion/ sound alarm. Figure 3.39) The default path for **Alarm Record Path** is C:\Documents and Settings\All Users\Documents.

NOTE: In Windows7 or Vista, if you cannot set the paths.:
Windows7 or Vista's security level is higher than Windows XP/2000.For "set record path" function, user should add the Device IP address to the Internet Explorer's 'Trusted sites' first. The step is: IE browser→Tool→Internet Proper→Security→Trusted sites→Sites→Add

3.5 Multi-Device Settings

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed.
The firmware within the camera can support a maximum of 9 devices monitoring all at the same time.

3.5.1 Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the

default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click **The 2nd Device** and click the item in the **Device List in LAN**, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click **Add**. Add more cameras in the same way. After all cameras have been added, choose **Submit**.

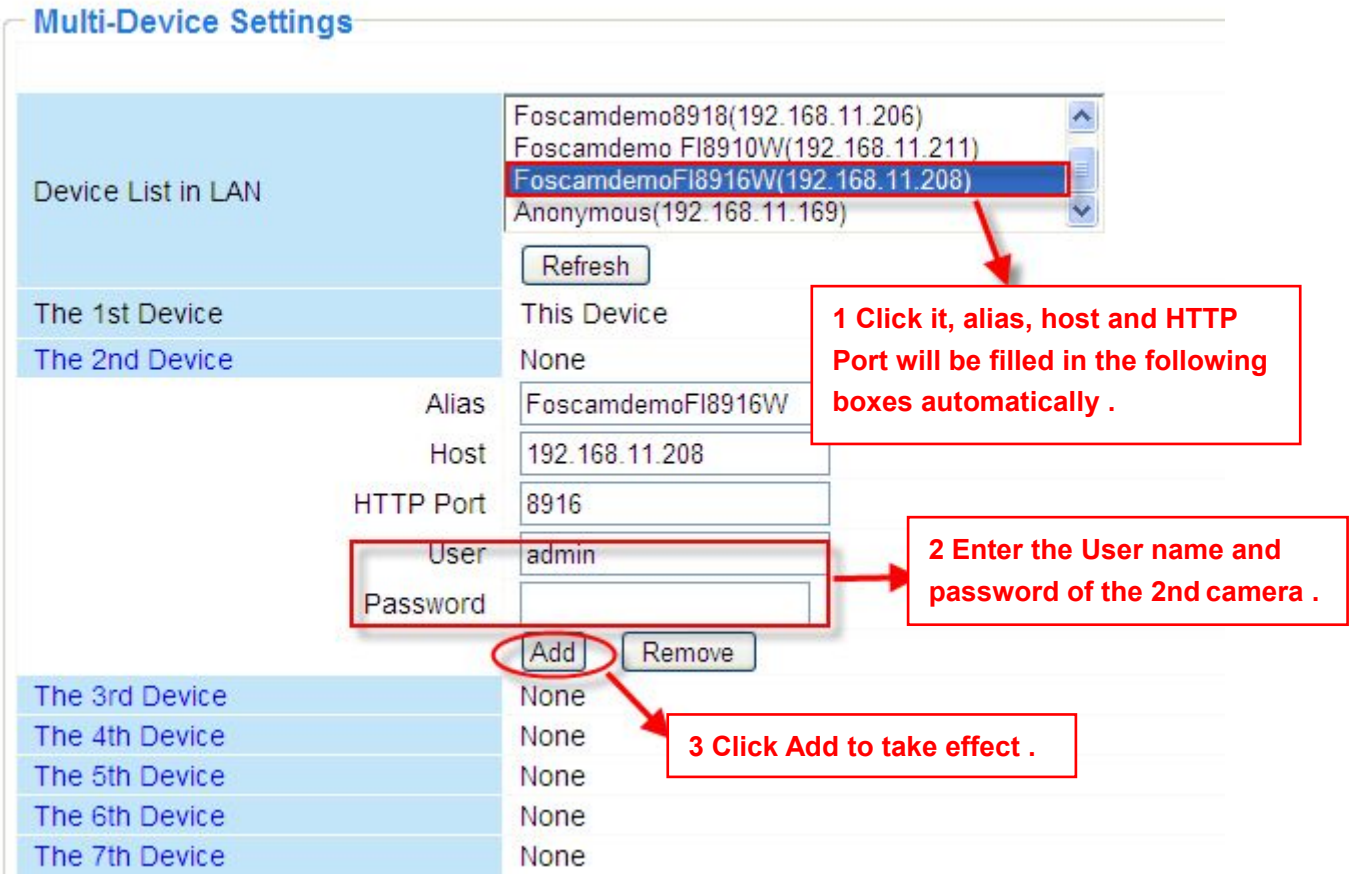


Figure 3.7a

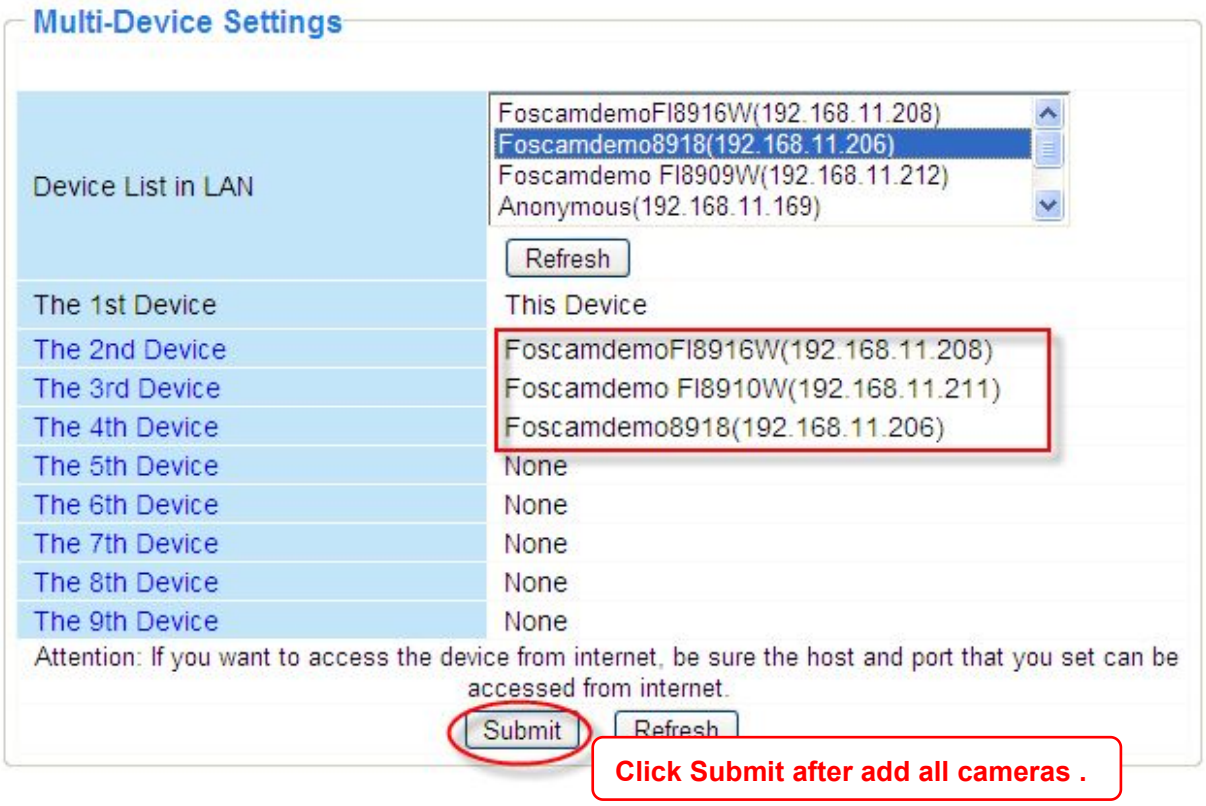


Figure 3.7b

Back to **Surveillance Windows**, and click Four Windows option, you will see four cameras you added.

Figure 3.8

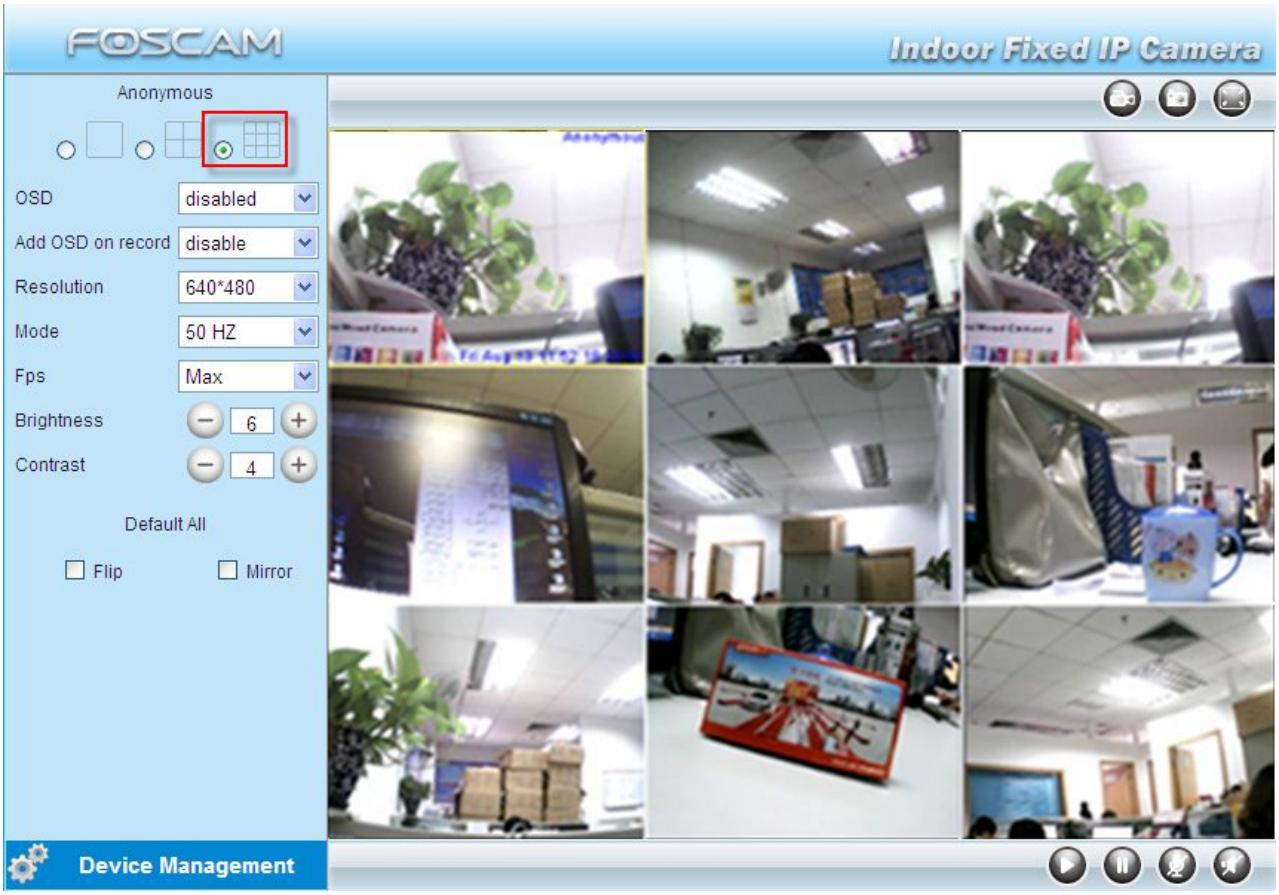


Figure 3.9

3.5.2 Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (Read **How to configure DDNS settings** in **chapter 3.10**)
Login to the first camera using a DDNS domain name and port.

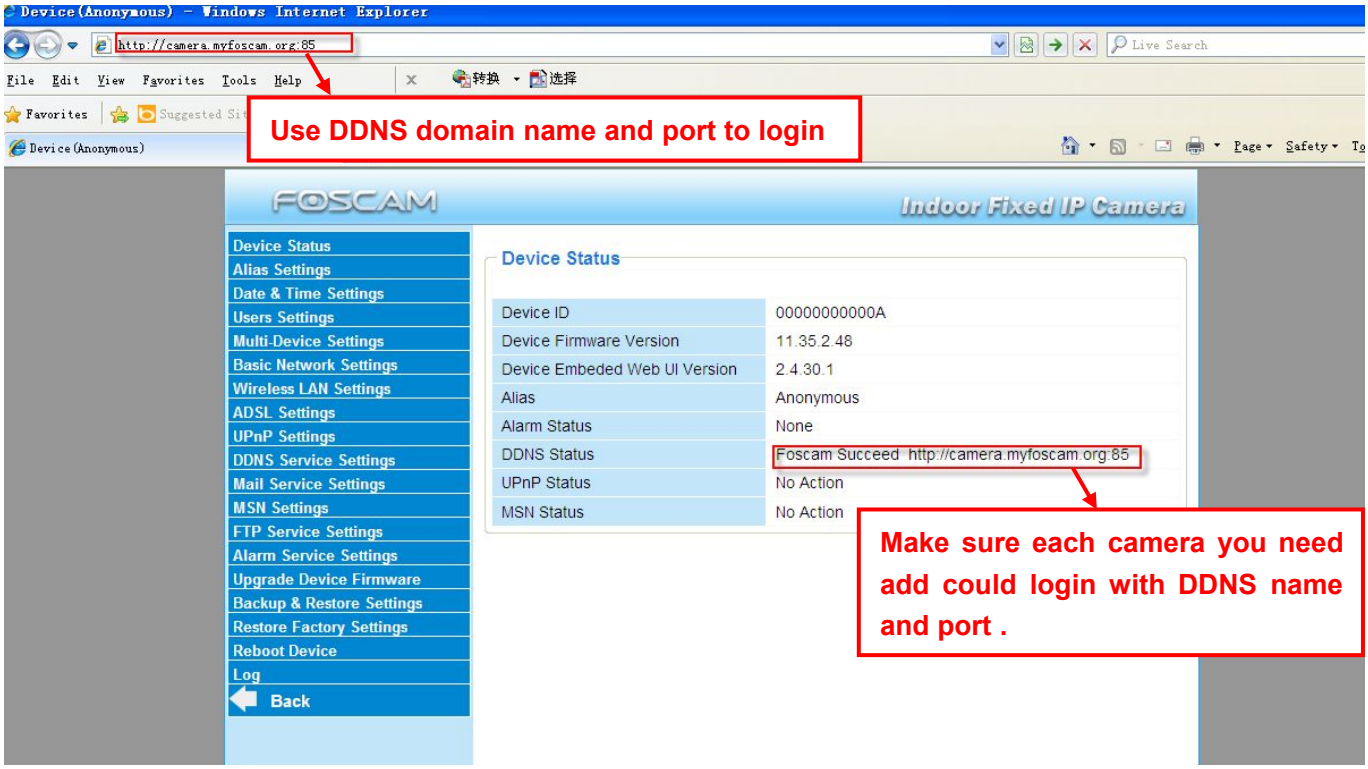


Figure 3.10

If you have several cameras, you can use the same DDNS domain name; you only need to set a different port number for each camera.
Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add. (Figure 3.11)

NOTE:
Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.

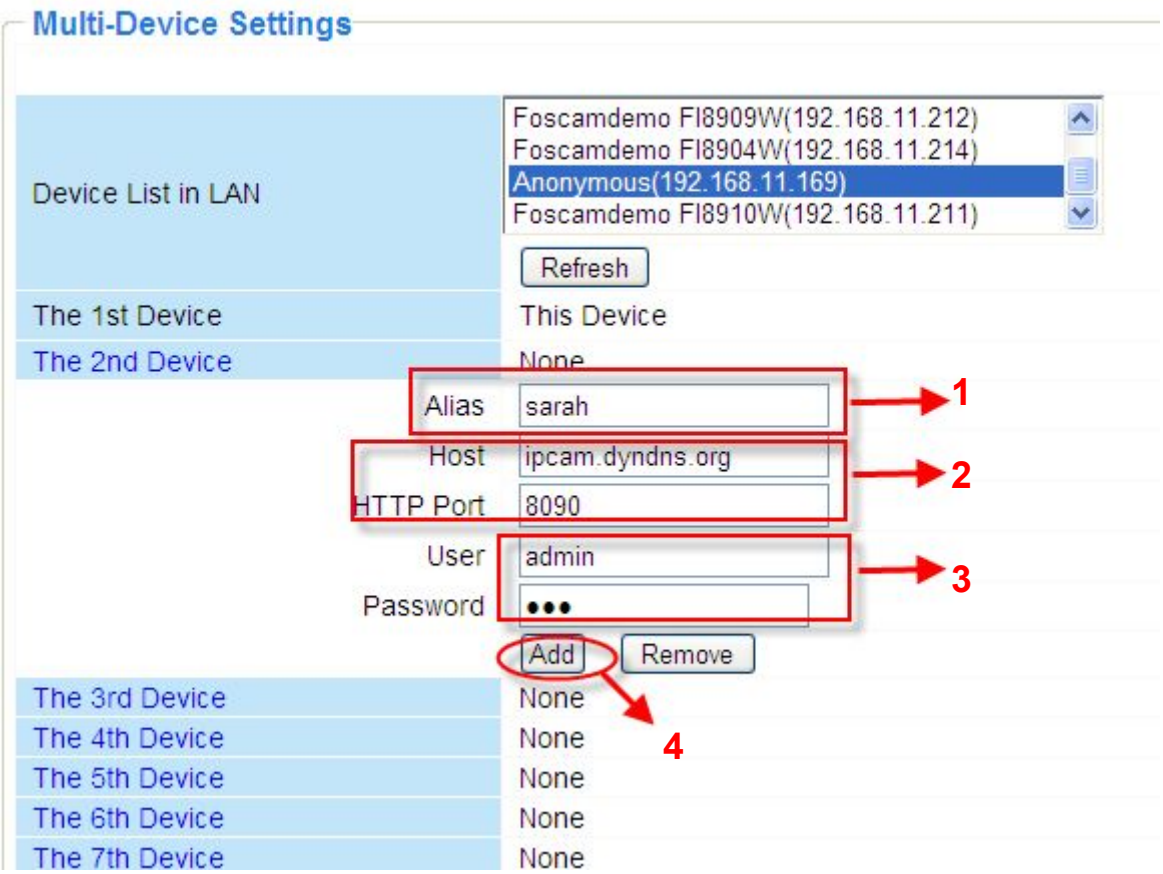


Figure 3.11

1----- The 2nd camera's name
2----- Fill in the 2nd camera's DDNS host not LAN IP
3 ---- Enter the 2nd camera's user name and password
4---- Click Add button and to take effect

Add the other cameras in the same way. Click **Submit** to save.

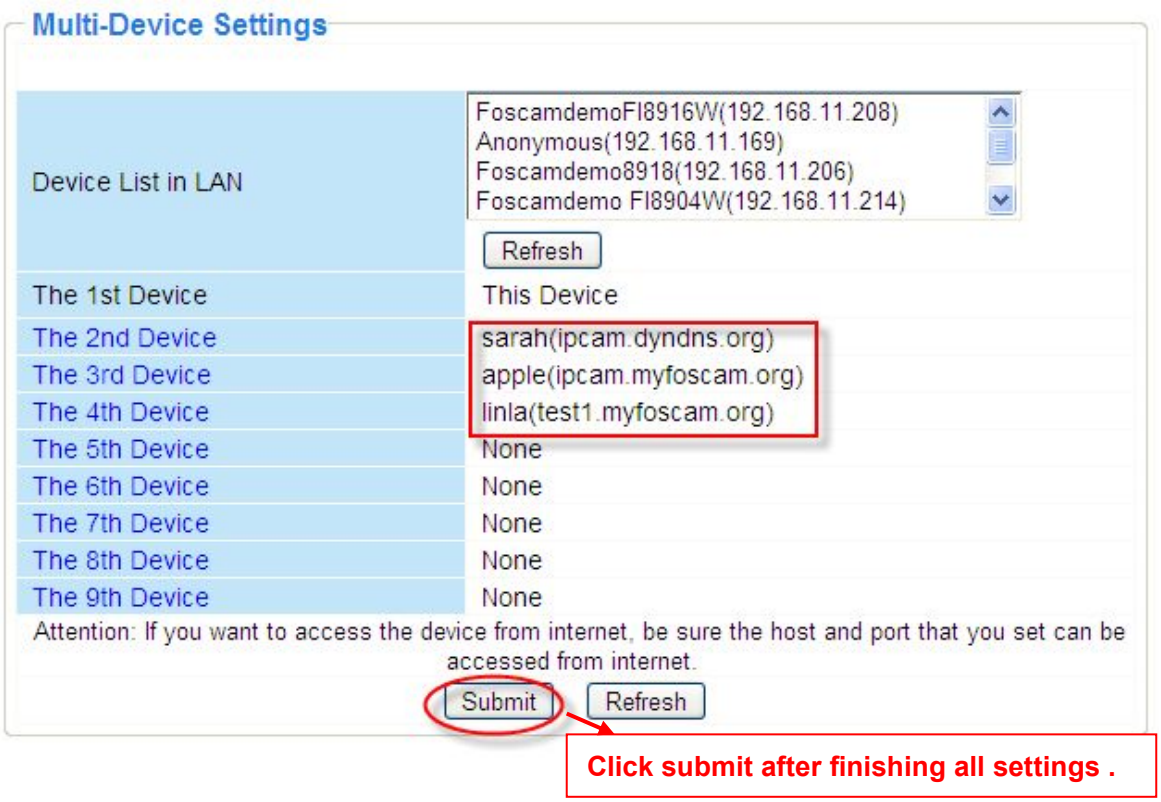


Figure 3.12

Return to video window. You will see all of the cameras accessible through the internet. When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

Figure 3.13

3.6 Basic Network Settings

If you want to set a static IP for the camera, select **Basic Network Settings**. Keep the camera in the same subnet of your router or computer.

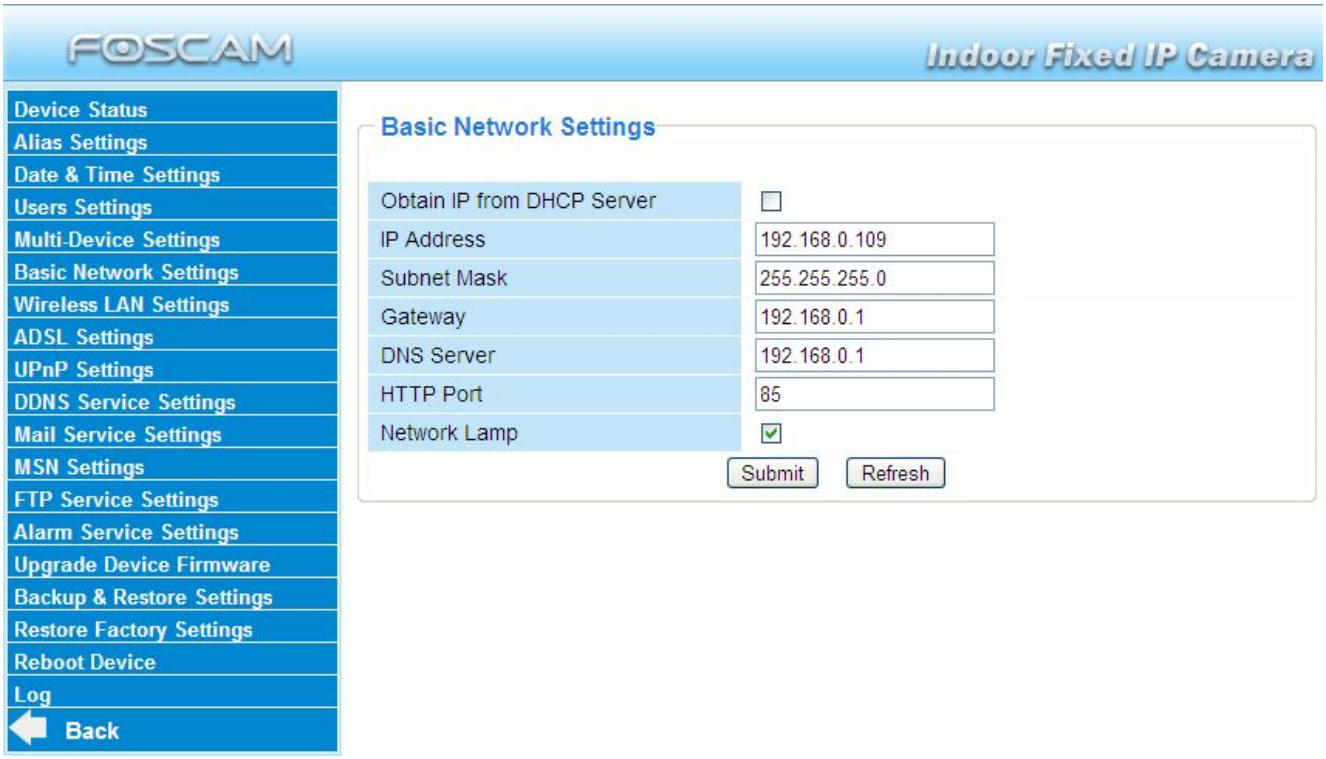


Figure 3.14

Changing settings here is the same as using the IP Camera Tool. (Figure 3.17/3.18)
It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:
Control Panel → Network Connections → Local Area Connections → Choose **Support→Details**.

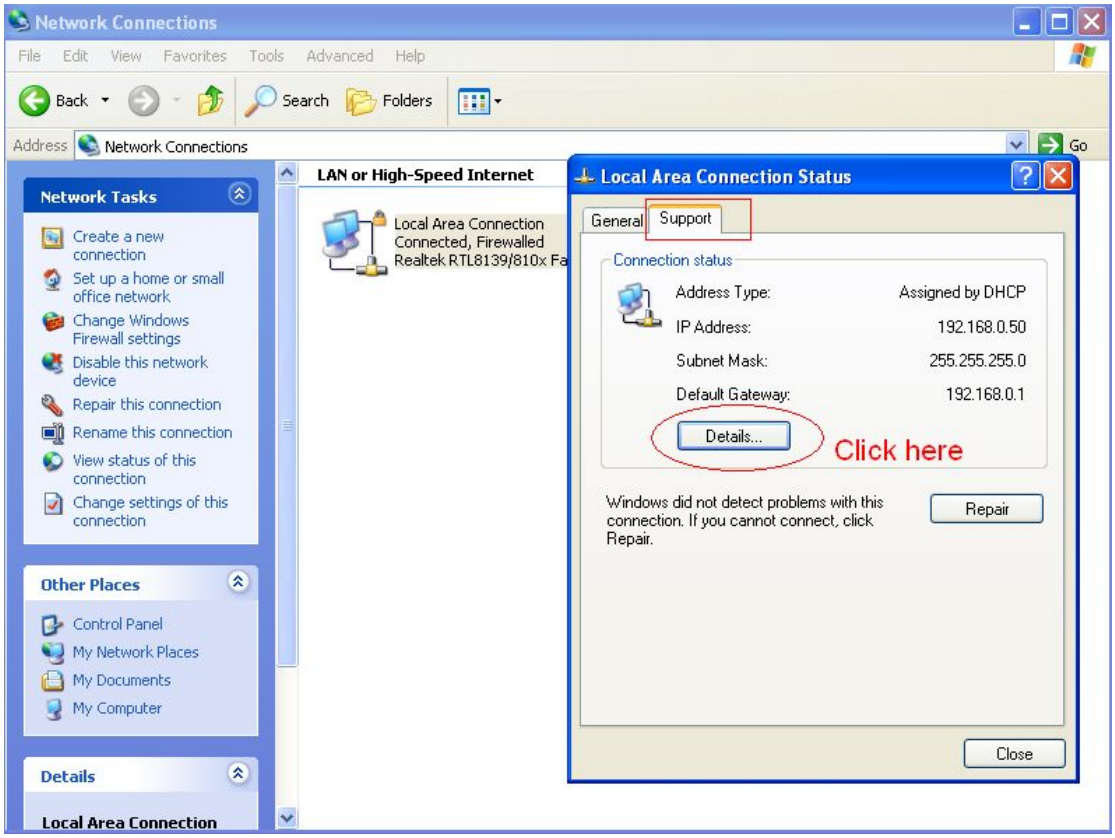


Figure 3.15

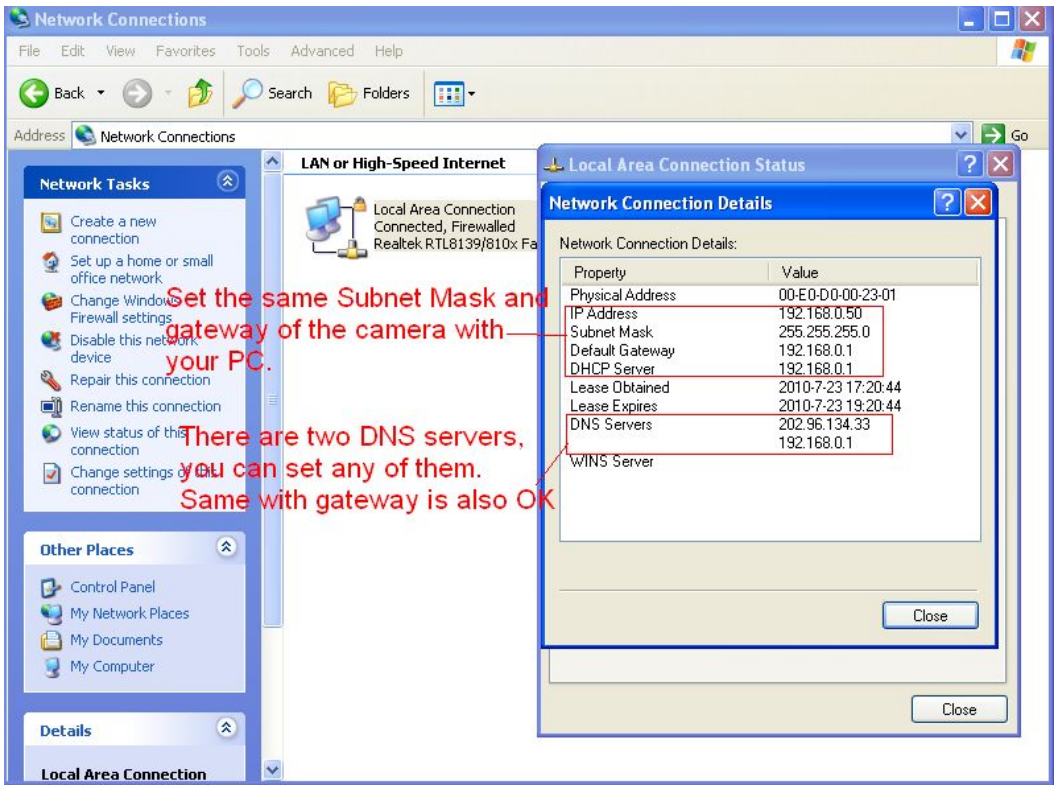


Figure 3.16

If you don't know the DNS server, you can use the same settings as the Default Gateway.

Network lamp: There is a network lamp on the back of the camera, select it and when the network connection are working, the lamp will turn on and blink.

Another way to change the camera's LAN IP and HTTP Port no.

Open the IP Camera Tool, select the camera you want to change the port no, right click on the IP address link, and goes to Option "Network Configuration", it pops up another dialogue showed as the following screen

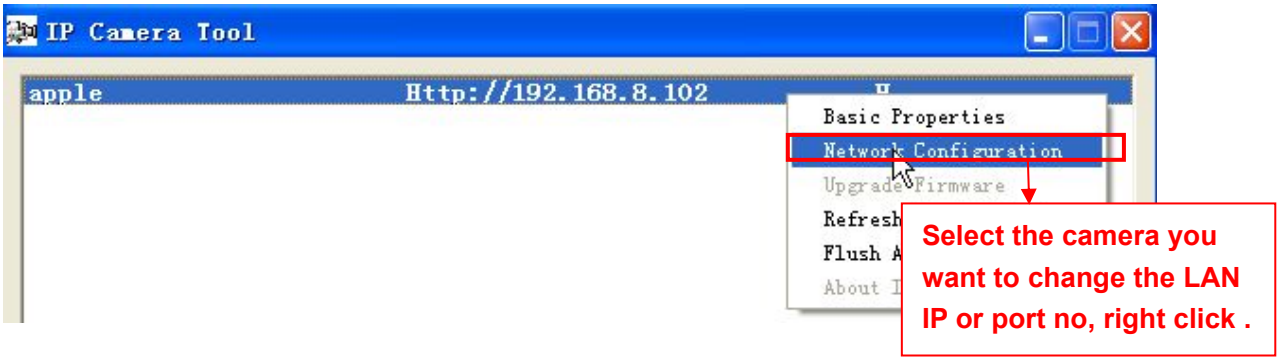


Figure 3.17

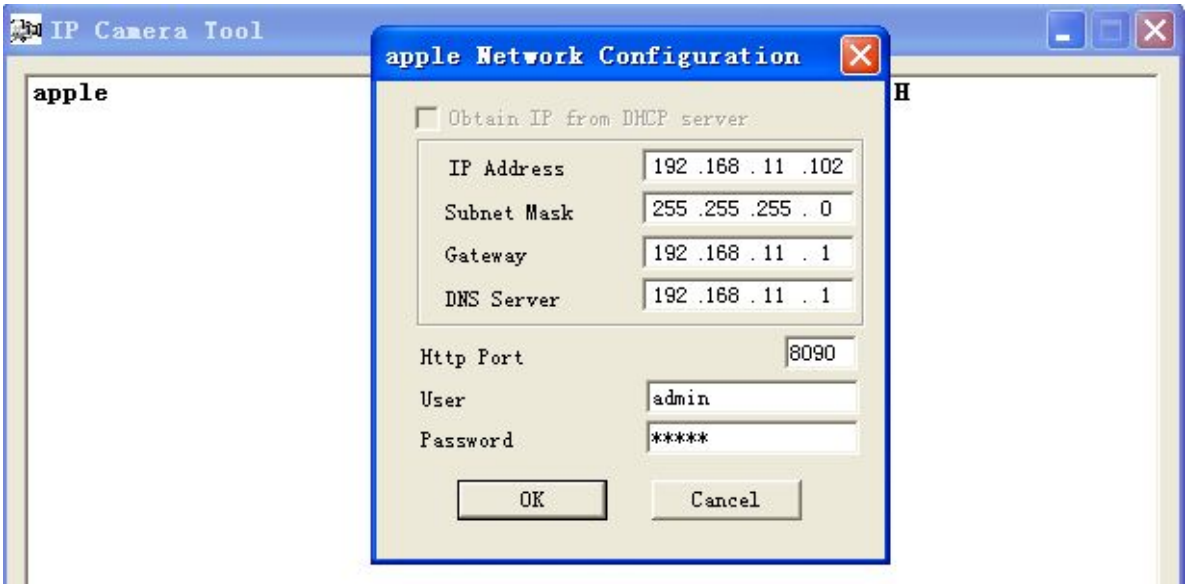


Figure 3.18

IP Address: Fill in the IP address assigned and make sure it is in the same subnet as your computer or router. (I.e. the first three sections are the same)

Subnet Mask: The default subnet mask of the equipment in our LAN is: 255.255.255.0.You can find the subnet mask in the basic information of your router or the locally-attached of your PC.

Gateway: Make sure it is in the same subnet with PC's IP address. The gateway is your router's LAN IP.

DNS Server: IP address of your ISP network provider. You can find the DNS server in your router or check the locally-attached address of your computer. Your PC contains your PC's IP address, gateway and DNS server. Normally, there are two DNS servers. Here you can also set the DNS server the same with gateway.

Http Port: The default Lan port is 80.You can set another port number, such as port 8005, 8100.etc.

User&Password: Default administrator user name is admin with no password.

NOTE:
If the prompt “Subnet doesn’t match, dbclick to change!” appears, please enable DHCP set camera’s IP address and gateway once again.

3.7 Wireless Settings

Wireless Lan Settings support three modes: Infra(Do wireless lan settings manually) and WPS (Wi-FI Protected Set-up) and Adhoc..

If your router does not support WPS function,please go to chapter 3.7.1 and make wireless connection settings manually.

If your router supports WPS function, please go to chapter 3.7.2 and make wireless connection settings quickly.

If there is no wireless router, please go to chapter 3.7.3 and Connect the IPCAM directly to a host in a peer_to_peer environment.

3.7.1 Infrastructure Mode

Step 01) Please choose “**Device Management**” and goes to the option **Wireless LAN Settings** , click “**Wireless LAN Settings**”. Then enable “**Using Wireless LAN**”.

Click the Scan button and the camera will detect all WIFI devices around the area. It should also display your router in the list. (Figure 3.19)

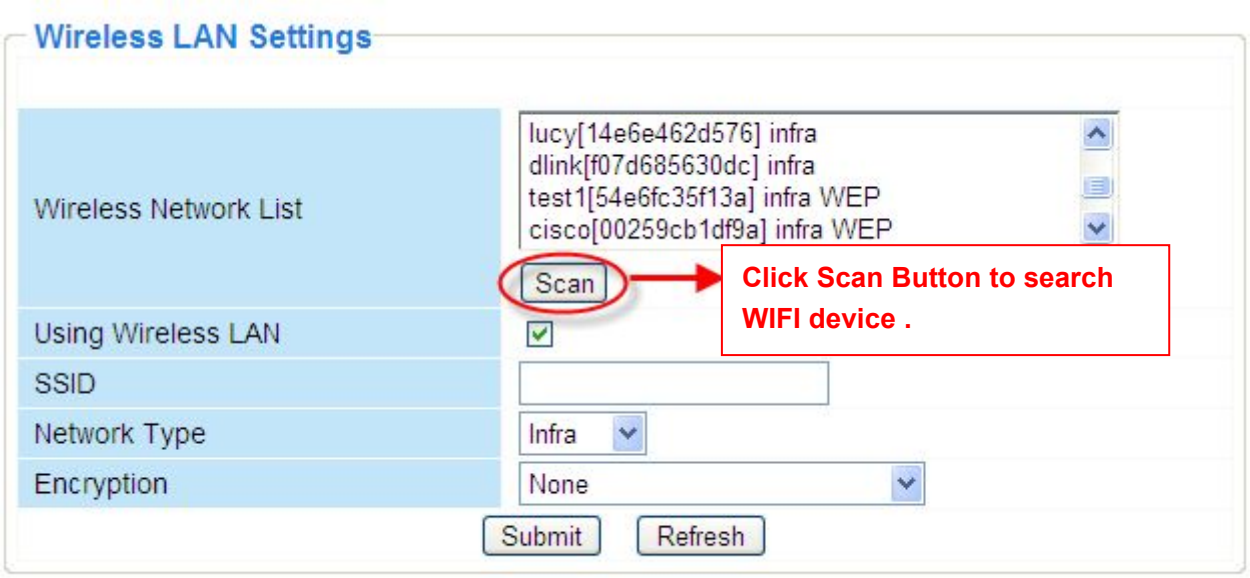


Figure 3.19

Step 02) Click the SSID of your router in the list, the corresponding information (SSID & Encryption) will be filled in the following boxes automatically.

You will only need to fill in the share key. Make sure that SSID, Encryption and share key you filled in for the camera are exactly the same for your router.

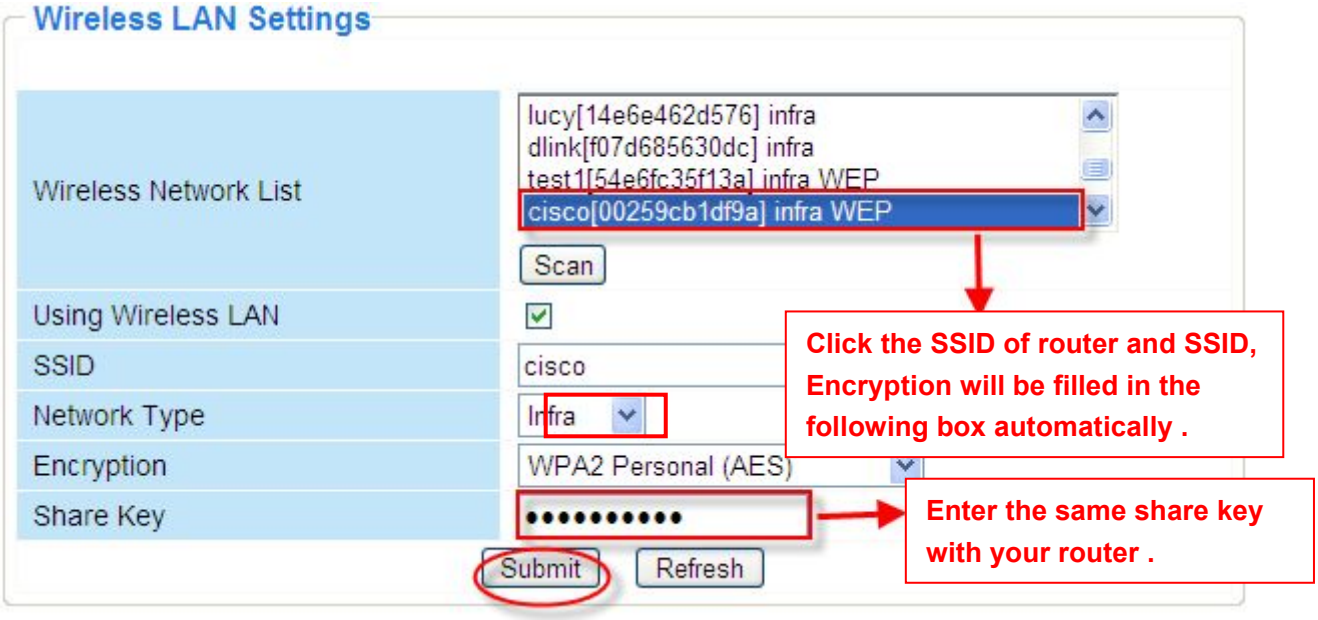


Figure 3.20

Step 03) Please click on the **Submit** button after all settings have been entered,the camera will reboot. After the camera has completed the reboot process, wait 10 seconds and disconnect the network cable.

The LAN IP address will disappear on the window of IP Camera Tool when the camera gets restarted. Just wait for around 1 minute, the camera will get wireless connection, and the LAN IP

of the camera will be showed again on the window of the IP Cam Tool. You have done wireless connection of the camera successfully. If the camera has a dynamic IP, after the wireless settings, the IP will be changed.

NOTE:

If fail to make WiFi connection, please refer to seller or us for help.

3.7.2 WPS (Wi-Fi Protected Set-up)

Step 01) Please use a small round stick or like toothpick to press and hold the RESET button for **four seconds.** .

Step 02) Press the WPS button on your router **within 60 seconds**. The WPS button is usually on the back or side of your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS buttons is on your router, please refer to your router's User Manual.

The camera will automatically create a secure wireless connection to your router. If you have plugged in the network cable, please plug it out. While connecting, the green network light will blink quickly and the wireless settings will take effect. The IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

NOTE:

1 During the WPS Settings, you must press the Reset button only for four seconds, or else, the camera may be reset back to factory default settings if you press and hold on the reset button above 10 seconds.

2 The security mode of router cannot be WEP, or else the WPS settings may be failed.

3.7.3 Adhoc Mode

Under this mode, the IPCAM will directly connect to a host in a peer_to_peer environment. Make sure the PC has plugged in the wireless network card.

Step 01) Enable wireless and choose Adhoc mode.

Fill in a SSID to identify the IPCAM and then set the security mode, you can choose none or others. Click Apply.

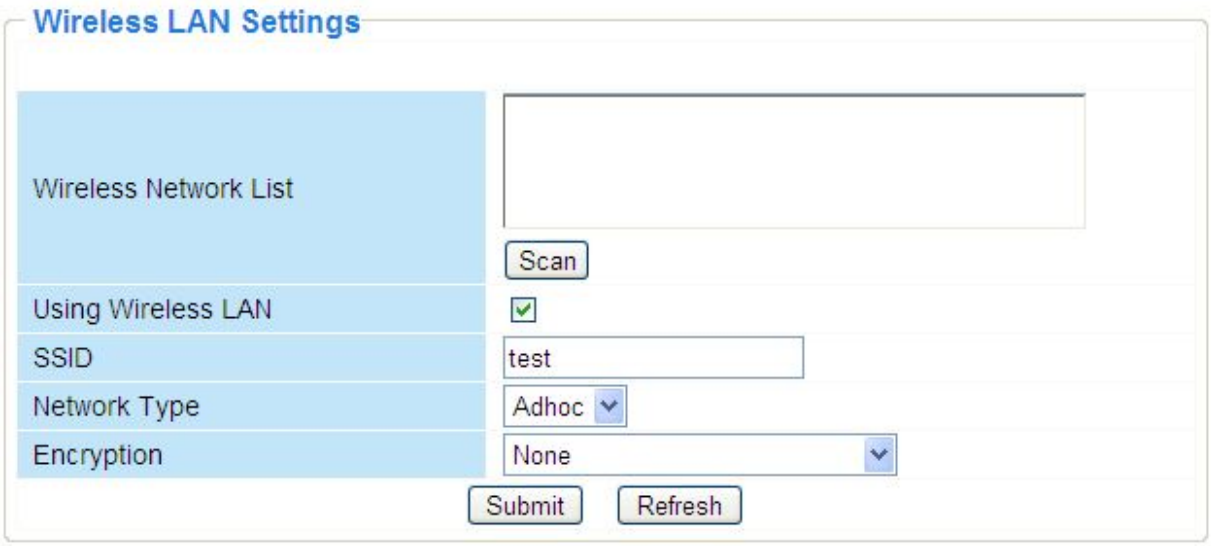


Figure 3.21

Step 02) Plug out the network cable and the camera will restart..
Open the wireless network card of PC and search the wireless network around the area. You can find the SSID you filled for the camera (Figure 3.21).

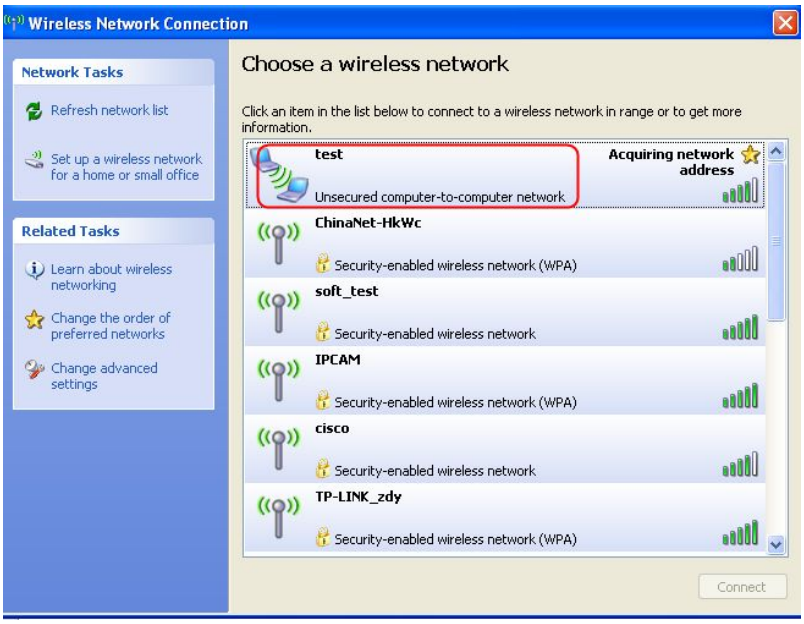


Figure 3.22

Step 03) Disabled the wired connection of the PC. Select the SSID you filled at Figure3.21 for your camera and enter the same key with your camera. Make sure PC and Camera share the same subnet.

Open the IP Camera Tool, you can search the camera LAN IP again.

3.8 ADSL

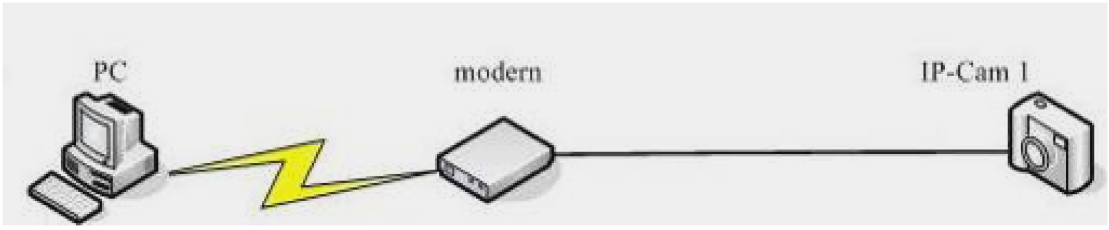


Figure 3.23

If you are connecting the camera directly to a ADSL modem, you can do ADSL settings with your ADSL account &password provided by the ISP, then make the camera connected to the network.

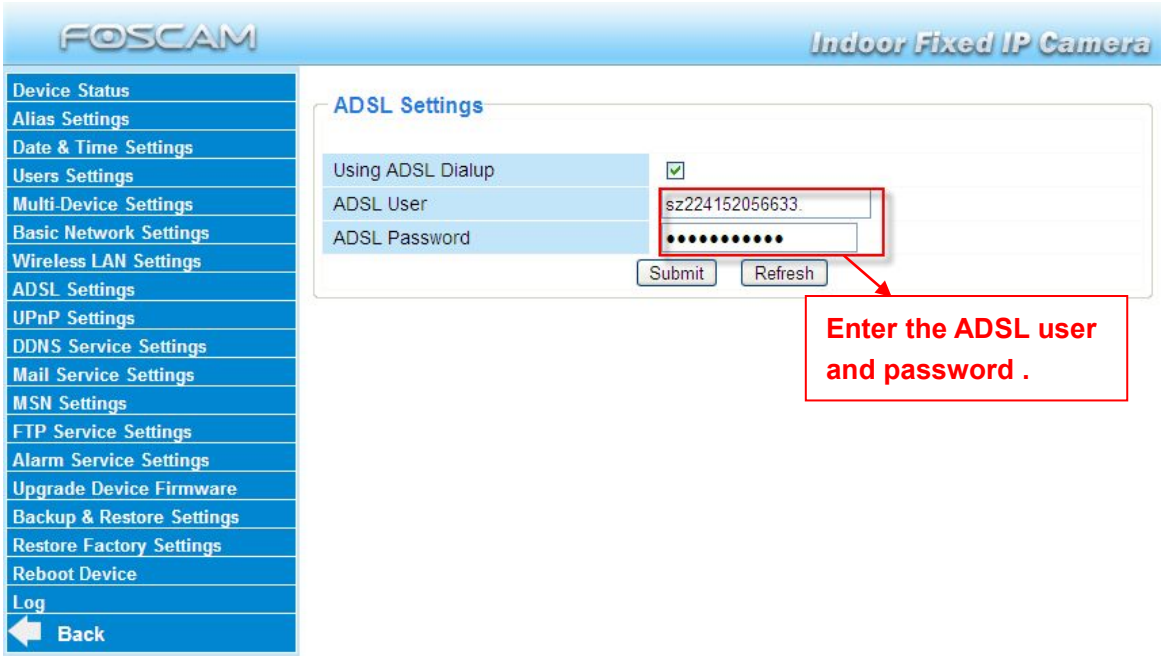


Figure 3.24

3.9 UPnP Settings

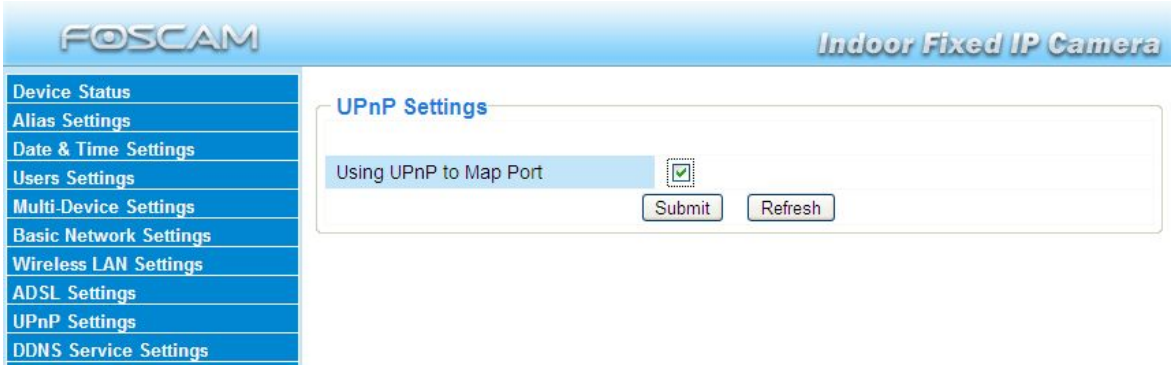
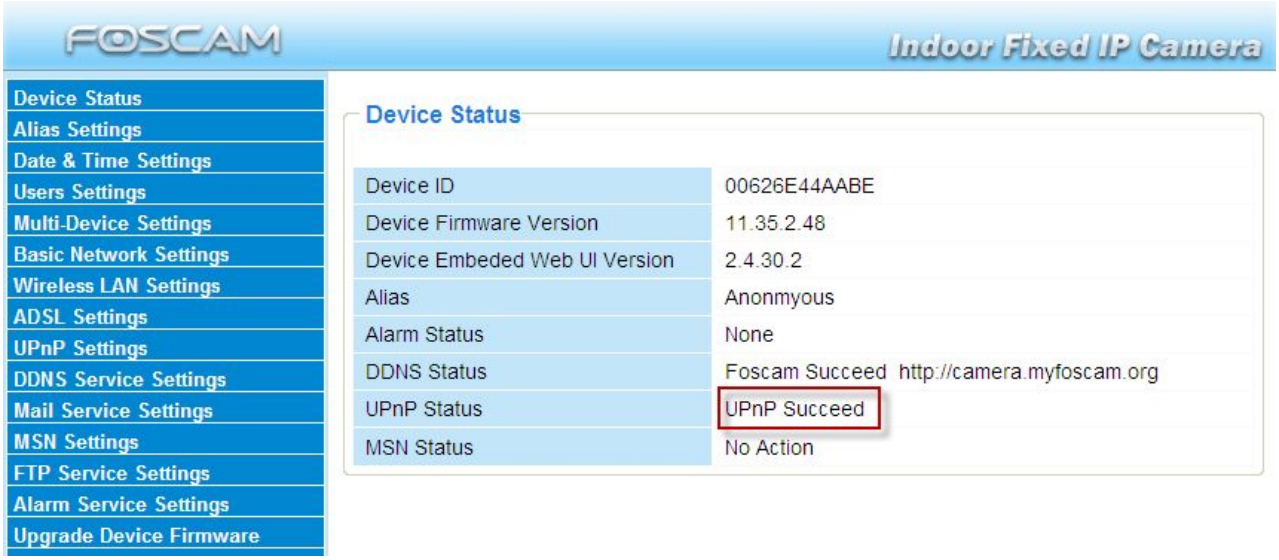


Figure 3.25

The default UPnP status is closed. You can select the checkbox and open UPnP, then the

camera's software will be configured for port forwarding. Back to the "Device Status" panel, you can see the UPnP status:



There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router (Figure 3.30).

3.10 DDNS Service Settings

FOSCAM camera has embedded a unique DDNS domain name when producing, and you can directly use the domain name, you can also use the third party domain name.

FOSCAM domain name

Here take **camera.myfoscam.org** for example. Go to option of **DDNS Service Settings** on the administrator panel, you can see the domain name.

Please **enable** the FOSCAM DDNS name first.

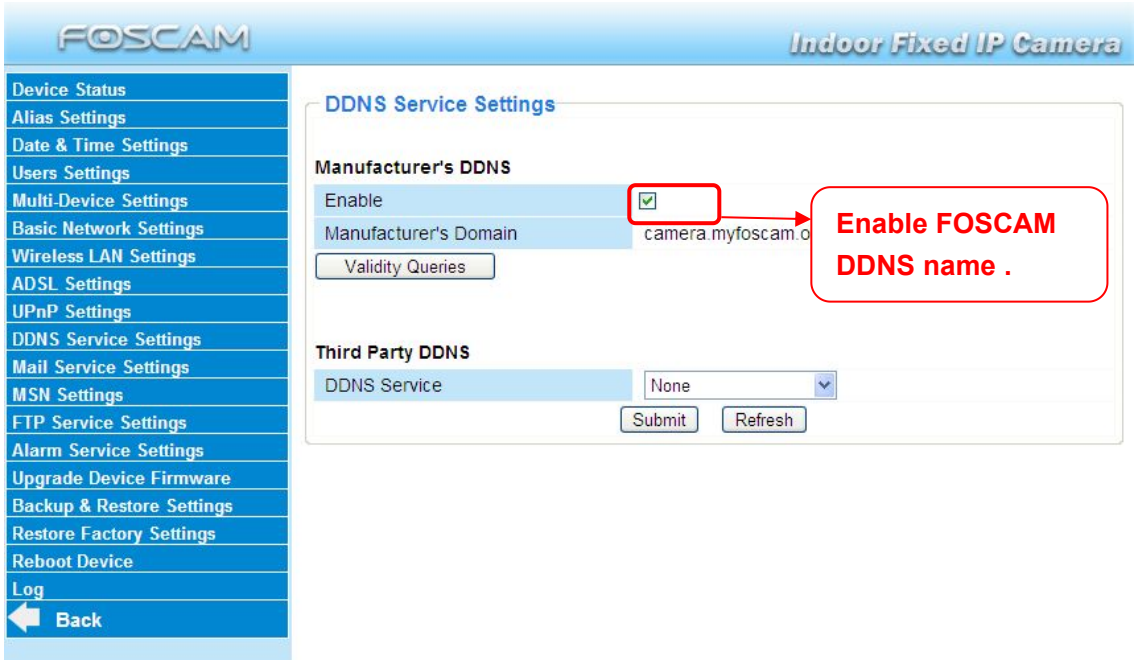


Figure 3.26

Enable: Open or close the FOSCAM domain name. The default status of FOSCAM domain name is open.

Validity Queries: Check the validity of embedded domain name.

Now you can use http:// **Domain name + HTTP Port** to access the camera via internet.
Take hostname **camera.myfoscam.org** and **HTTP Port no. 88** for example, the accessing link of the camera via internet would be http:// camera.myfoscam.org:88

Note: If you want to use the manufacturer's domain name, please select None as the Third Party DDNS and enable the Manufacturer's domain name, then click submit.

Third Party Domain Name Settings

User can also use third part DDNS, such as www.no-ip.com. ,www. dyndns.com

Here take www.no-ip.com for example:

Step 1, Go to the website www.no-ip.com to create a free hostname

Firstly: Login on www.no-ip.com and click No-IP Free to register.

Home
Contact Us
Login
no-ip
The DNS Service Provider
Home
Download
Services
Support
Company
Managed DNS
No-IP Plus, The complete managed DNS Solution
Easy to use interface.
Complete control over your domain.
FREE dynamic DNS update client.
Includes 50 hosts/sub domains.
Sign Up!
More Info
User Login
Username
Password
Create Account
Forgot password?
Login
Additional Services
No-IP Enhanced
Upgrade your No-IP account to unlock many exciting features.
No-IP Backup DNS
Maximize uptime and add Anycast to your existing DNS infrastructure.
No-IP Monitoring
24/7 server monitoring including automatic failover.
Mail Reflector
Run a mail server even if your ISP blocks port 25.
FROM $15
Register Your Domain
com
Search
Click here to register
No-IP Free
Create a FREE hostname to point to your dynamic IP
See what over 12+ million users are talking about. Try us for FREE!
Learn More >
POP3 / IMAP Mail
Outsource your mail service administration
Packages including 100MB to 2GB of storage, webmail access, advanced spam and virus filtering! As low as $19.95 per year.
Learn More >
Feature Highlight
Configure your router to work with No-IP.com
Our DDNS is included in many hardware routers. We'll help you get started.
Learn More >
Stay Connected
Home | API | Whois | Contact Us | Sitemap | Terms of Service | Privacy Policy | Blog

Figure 3.27

Please register an account step by step according to instructions on www.no-ip.com

After registration, please login your email which used to register. You will receive an email from

website, please click the link to activate your ACCOUNT as indicated in email.

Secondly: Login the link with the registered username and password to create your domain name.

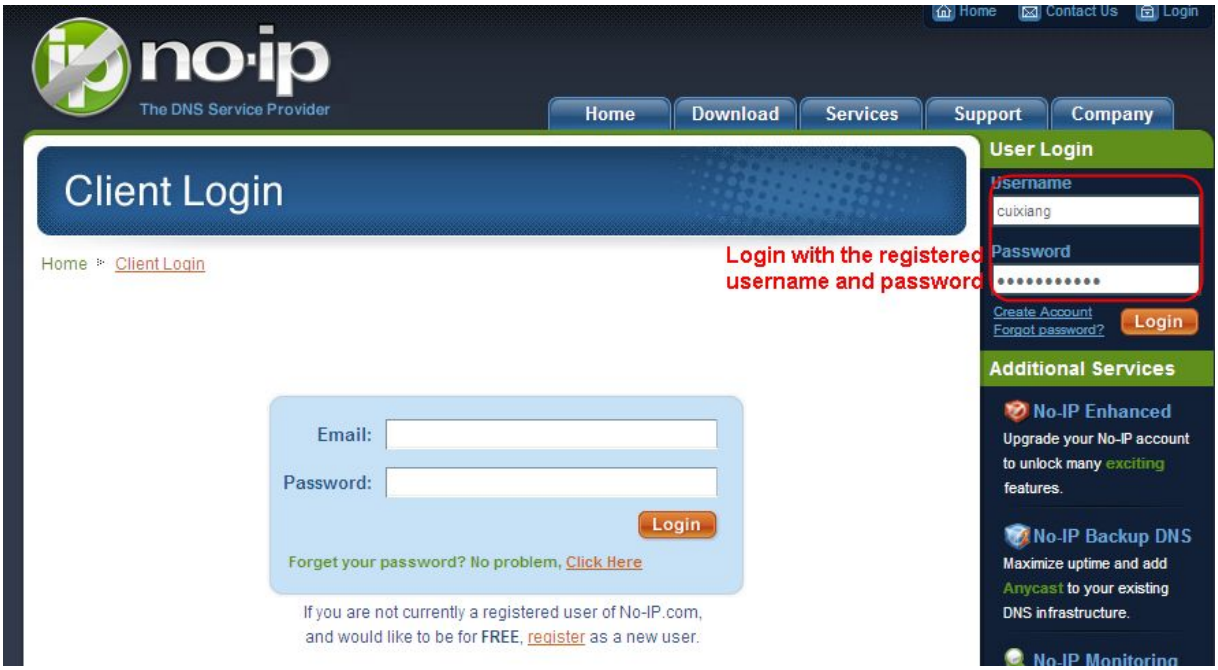


Figure 3.28

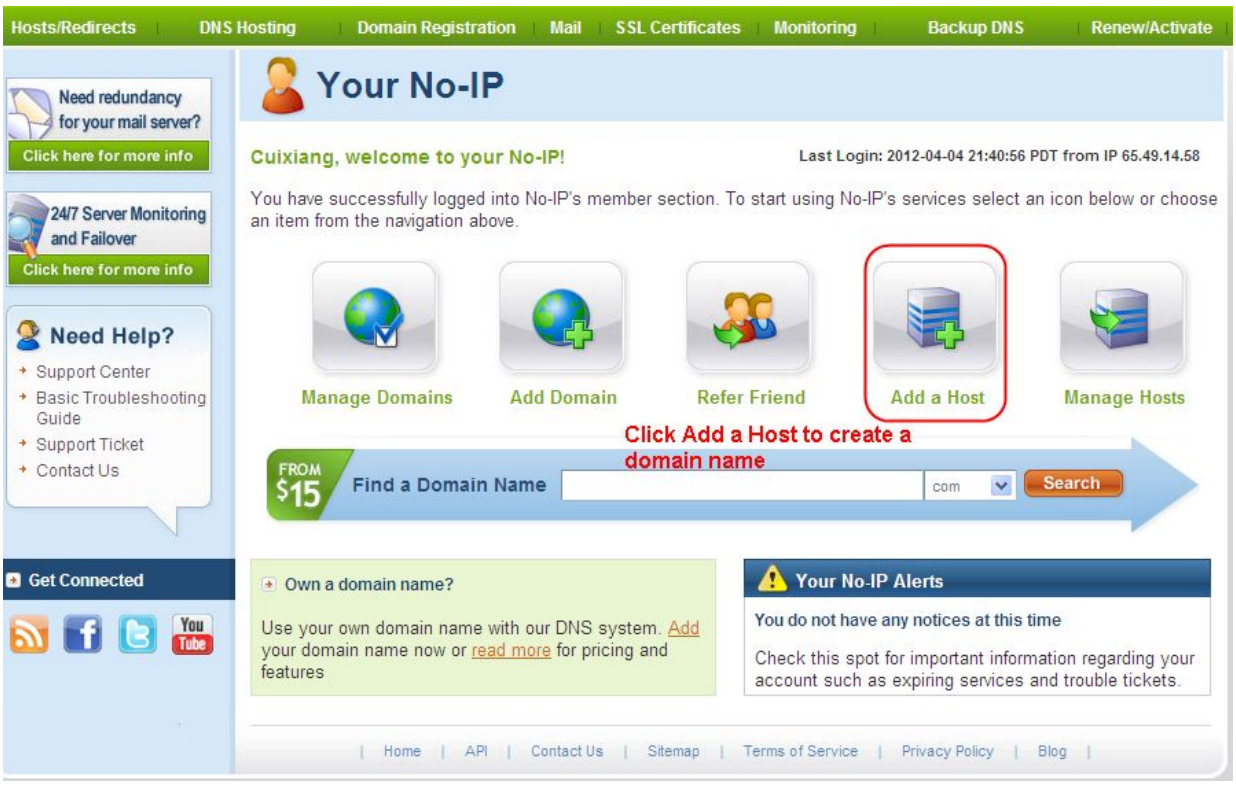

Hosts/Redirects
DNS Hosting
Domain Registration
Mail
SSL Certificates
Monitoring
Backup DNS
Renew/Activate
Need redundancy for your mail server?
Click here for more info
24/7 Server Monitoring and Failover
Click here for more info
Need Help?
Support Center
Basic Troubleshooting Guide
Support Ticket
Contact Us
Get Connected
Your No-IP
Cuixiang, welcome to your No-IP!
Last Login: 2012-04-04 21:40:56 PDT from IP 65.49.14.58
You have successfully logged into No-IP's member section. To start using No-IP's services select an icon below or choose an item from the navigation above.
Manage Domains
Add Domain
Refer Friend
Add a Host
Manage Hosts
Click Add a Host to create a domain name
FROM $15
Find a Domain Name
com
Search
Own a domain name?
Use your own domain name with our DNS system. Add your domain name now or read more for pricing and features
Your No-IP Alerts
You do not have any notices at this time
Check this spot for important information regarding your account such as expiring services and trouble tickets.
Home | API | Contact Us | Sitemap | Terms of Service | Privacy Policy | Blog

Figure 3.29

Please create the domain name step by step according to instructions on www.no-ip.com

Step 2, DO DDNS Service Settings within the Camera

Please set **DDNS Service Settings** within the camera by **hostname**, a **user name** and **password** you've got from www.no-ip.com

Take **hostname ycxgwp.no-ip.info**, **user name foscam**, **password foscam2012** for example.

Firstly, goes to option of **DDNS Service Settings** on the administrator panel.

Secondly, Disable the Manufacturer's domain name and select No-Ip as a server in the **Third Party DDNS**.

Thirdly, fill **foscam** as DDNS user, fill password **foscam2012** as DDNS password, fill **ycxgwp.no-ip.info** as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the camera, and go to option of **Device Status** on the administrator panel, and check if the DDNS status is successful.

If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

NOTE:

The Third Party DDNS and the Manufacturer's Domain Name cannot work at the same time.
If you have set Third Party DDNS and meanwhile you enabled the Foscam Domain Name, the Third Party DDNS will take effect.

② Do port forwarding within the router

Example: The camera's LAN IP address is http://192.168.1.35:88 ,

Firstly, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named **Virtue Server** on some brands of router). **Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.**

Secondly, Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below.

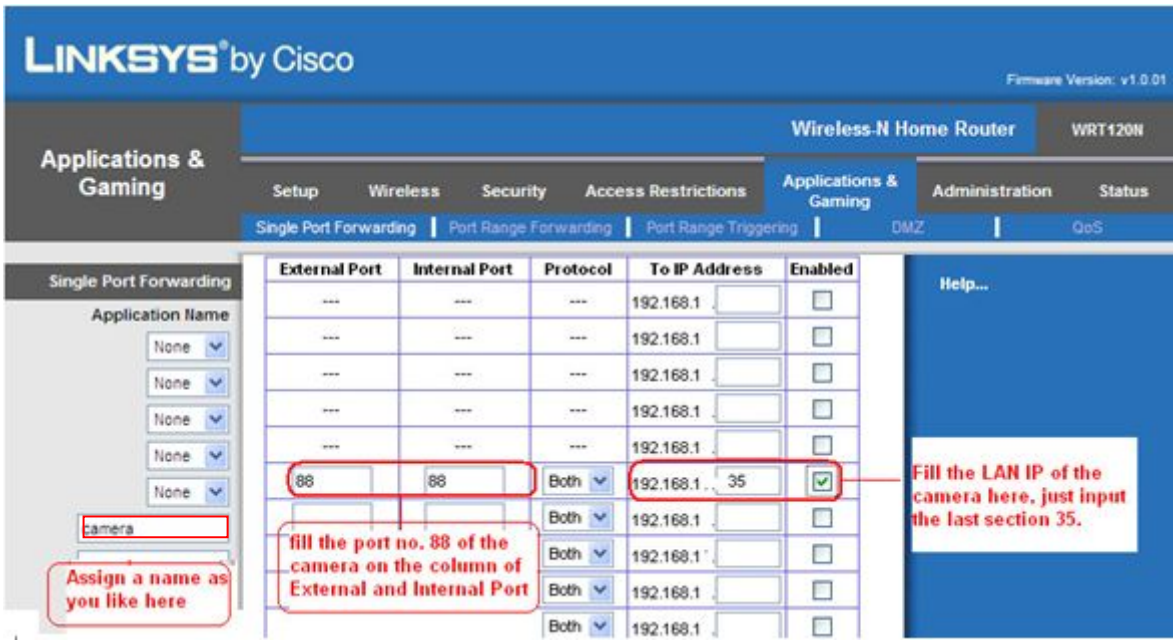


Figure 3.30

③ Use domain name to access the camera via internet

After the port forwarding is finished, you can use **the domain name+ http no.** to access the camera via internet. Take hostname **ycxgwp.no-ip.info** and **http no. 88**for example, the accessing link of the camera via internet would be http:// ycxgwp.no-ip.info:88

3.11 Mail Service Settings

If you want the camera to send emails when motion/sound has been detected, **Mail Service Settings** will need to be configured.

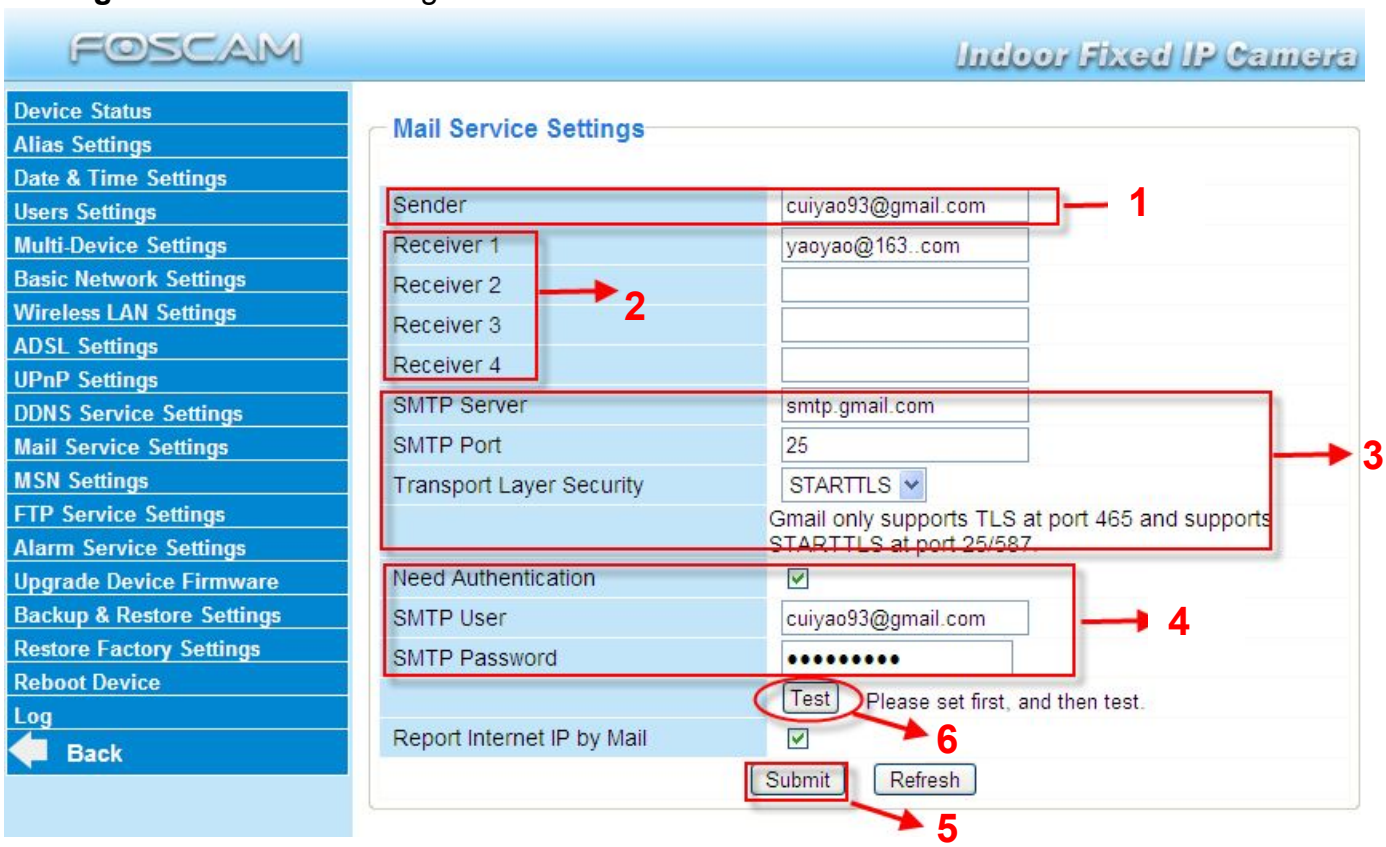


Figure 3.31

1----- Sender Mailbox for sender must support SMTP

2----- Receiver Mailbox for receiver need not support SMTP,you can set 4 receivers

3----- SMTP Server/ Port Enter SMTP server for sender. **SMTP port** is usually set as 25. Some SMTP servers have their own port, such as 587 or 465 and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

4---- SMTP user ID account of the sender email address

5----Submit Click Submit to take effect

6----Test Click **Test** to see if SMTP has been successfully configured.

NOTE: Click **Submit** first before choosing **Test**.

Click **Test** to see if SMTP has been successfully configured.

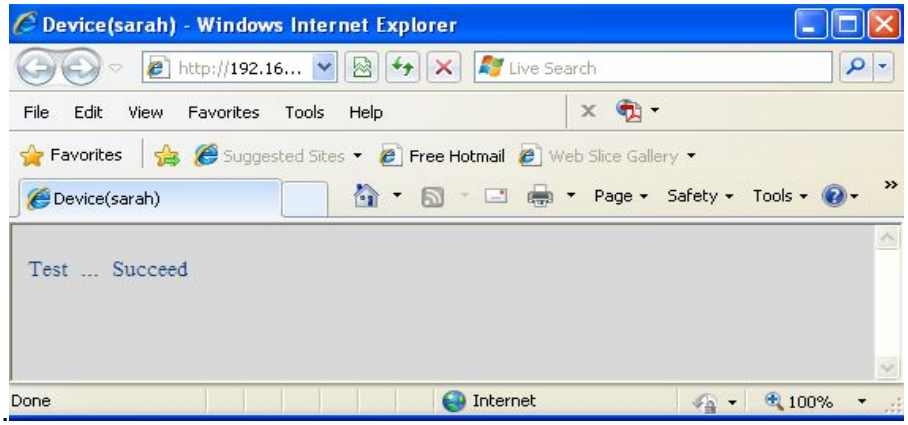


Figure 3.32

If the test fails with one of the following errors after clicking **Test, verify** that the information you entered is correct and again select **Test** .

1) Cannot connect to the server
2) Network Error. Please try later
3) Server Error
4) Incorrect user or password
5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
8) The server does not support the authentication mode used by the device

Report Internet IP by Mail—If selected, you will receive emails which contains internet IP information such as When the camera is powered or the Internet IP has changed. (For example: IPCAM's urls is http://119.123.207.96:8068). Make sure the port is mapped to the router correctly.

3.12 MSN Setting

If you want the camera send its current internet IP address to you or your friends, please set MSN settings.

Acquire an MSN ID for the IPCAM first, then follow the instructions as per Figure 3.33.

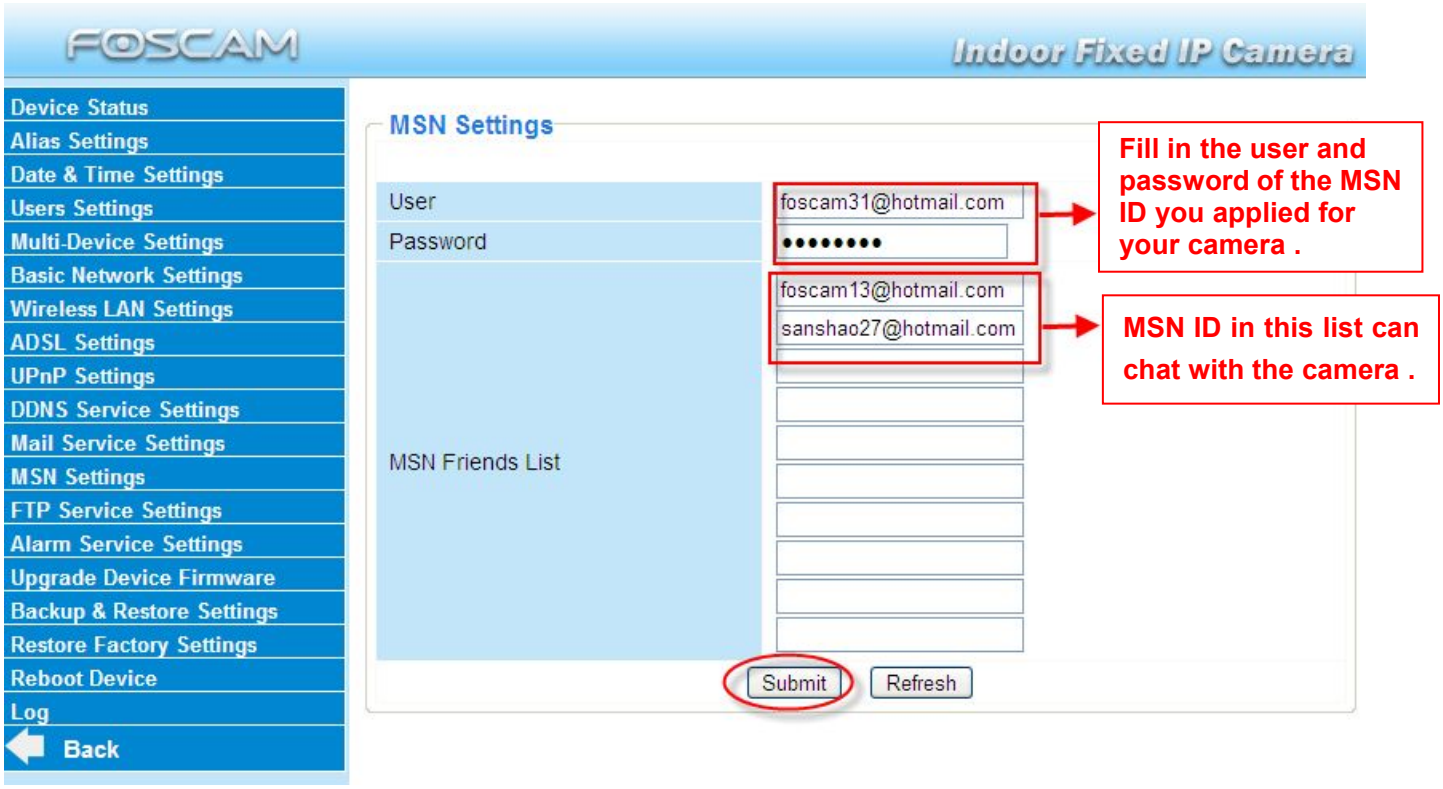


Figure 3.33

Click Submit and go to the “Device Status” screen and verify the MSN settings are succeed.

Figure 3.34

When the MSN ID in the Friends list login the MAN, he can chat with camera. For example:

Foscam13(this account contained in the Friends list) log in MSN, and double click the camera’s account (foscam31), then enter “url?”, the camera will send it’s current IP address to you.

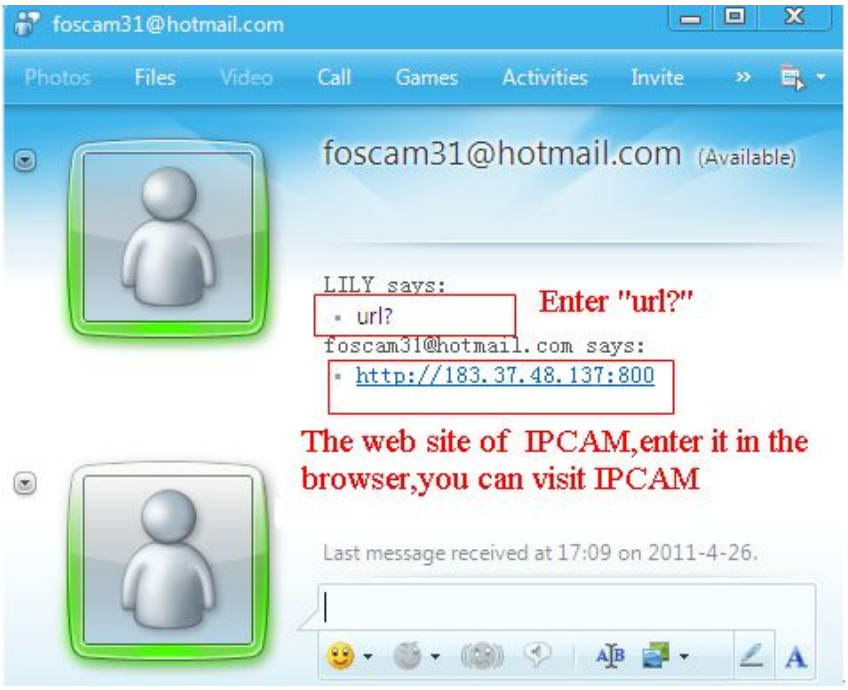


Figure 3.35

Note: Create a new MSN account for the camera, do not use the same MSN account as you would like to chat with your friends. When the camera login uses the MSN account, this account cannot be used for anything else when the camera works.

3.13 FTP Service Settings

If you want to upload images to your FTP server，you can set **FTP Service Settings**.

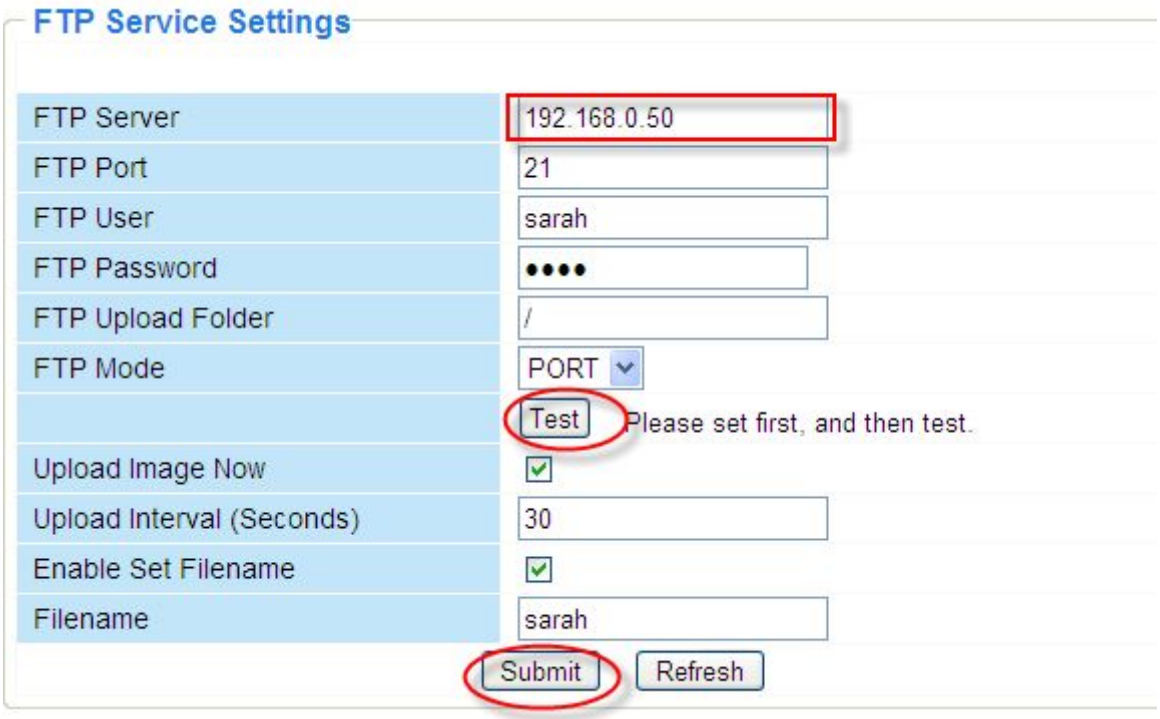


Figure 3.36

Figure 3.37

FTP server: If your FTP server is located on the LAN, you can set as Figure 3.36.
If you have an FTP server which you can access on the internet, you can set as Figure 3.37.
FTP Port: Usually the port is 21.
FTP Upload Folder: Make sure that the folder you plan to store images exists as the camera can't create the folder itself. Also, the folder must be read/writable.
FTP Mode: The camera supports standard (POST) mode and passive (PASV) mode
Upload Image Now: This option will upload images continuously when you enable the checkbox
Enable Set Filename: When you enable this option the uploaded image will be named according to the filename you enter. The next image will overwrite the filename of the previous image. Hence there will only be one image, the last uploaded.
Filename: See the above option.
Note: You cannot change the name of the alarm image.

Upload Interval refers to the time between the current image and the next image being uploaded.

Click **Submit** to save these settings. Click **Test**, the following screen displays if successful.

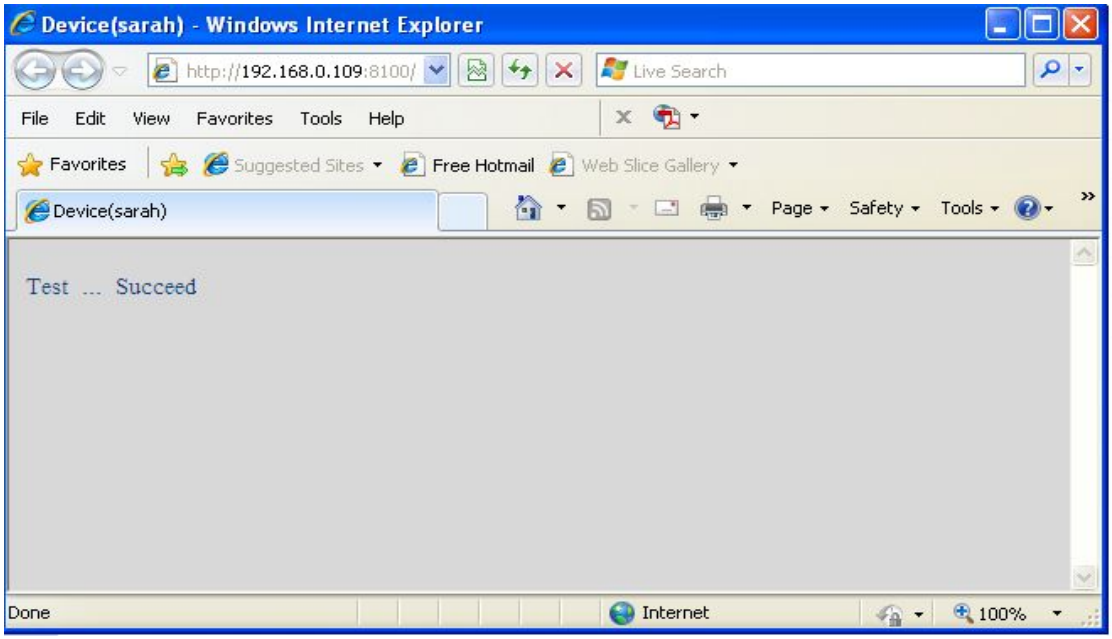


Figure 3.38

The following errors may occur:

1) Can not connect to the server. Check if the FTP Server is correct.
2) Network Error. Please try later.
3) Server Error.
4) Incorrect user or password. Check the username and password.
5) Cannot access the folder. Verify the folder exists and your account is authorized
6) Error in PASV mode. Verify the server supports PASV mode.
7) Error in PORT mode. PASV mode should be selected if the device is behind a NAT.
8) Cannot upload file. Verify your account is authorized

If an error occurs check the parameters you entered are correct. The filename format of the image is similar to 00606E8C1930(sarah)_0_20100728114350_25.jpg

Check if your FTP server supports this file name format.

3.14 Alarm Service Settings

IP Camera supports **Motion Detection Alarmed** and **Sound Detection Alarmed**, when the motion or sound has been detected, it will send email alerts or upload images or record.

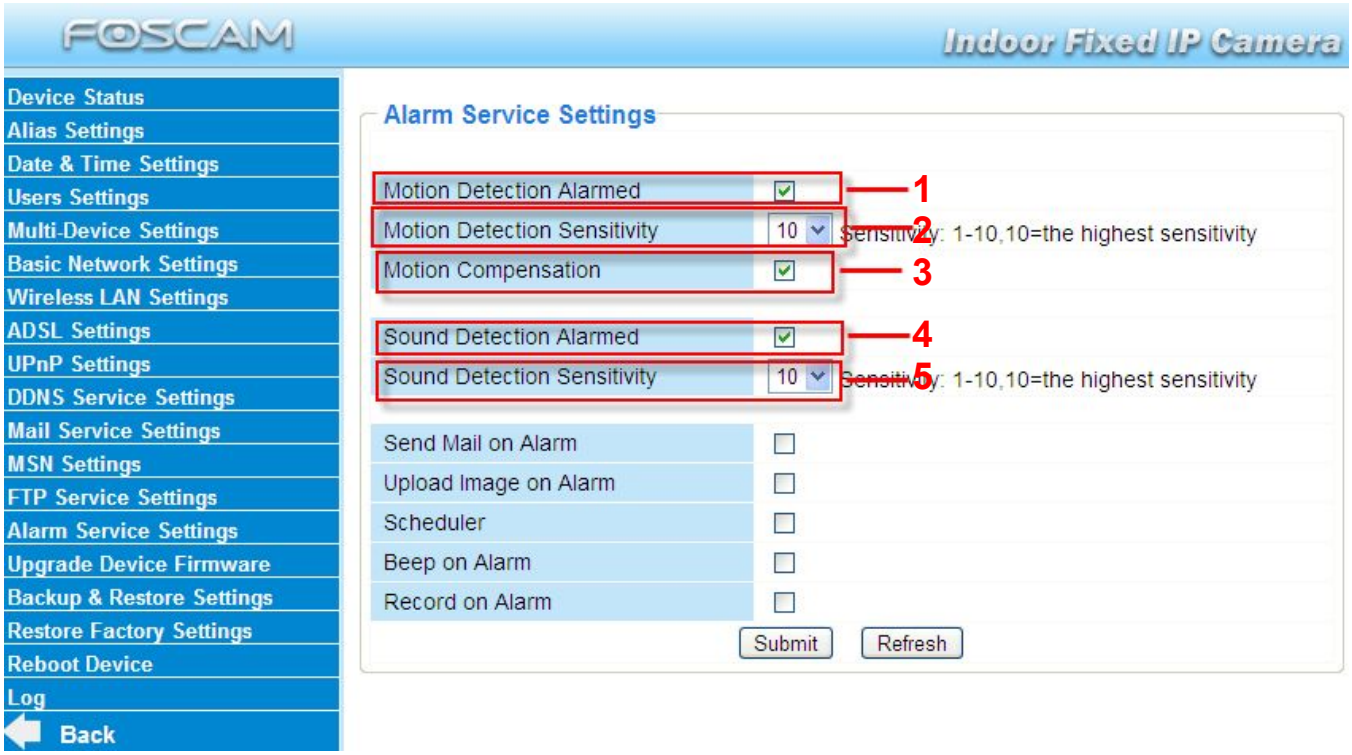


Figure 3.39

1---- If you want to set Motion Detection Alarmed ,select the checkbox

2---- The larger the number, the higher the motion sensitivity will be

3---- Select this option to reduce false alarms when light changes

4----- If you want to do Sound Detection Alarmed,select the checkbox

5---- The larger the number, the higher the sound sensitivity will be

If motion/sound is detected after you enable **Motion Detection Armed/Sound Detection Alarmed**, the Alarm Status will turn to Motion/Sound Detect Alarm.

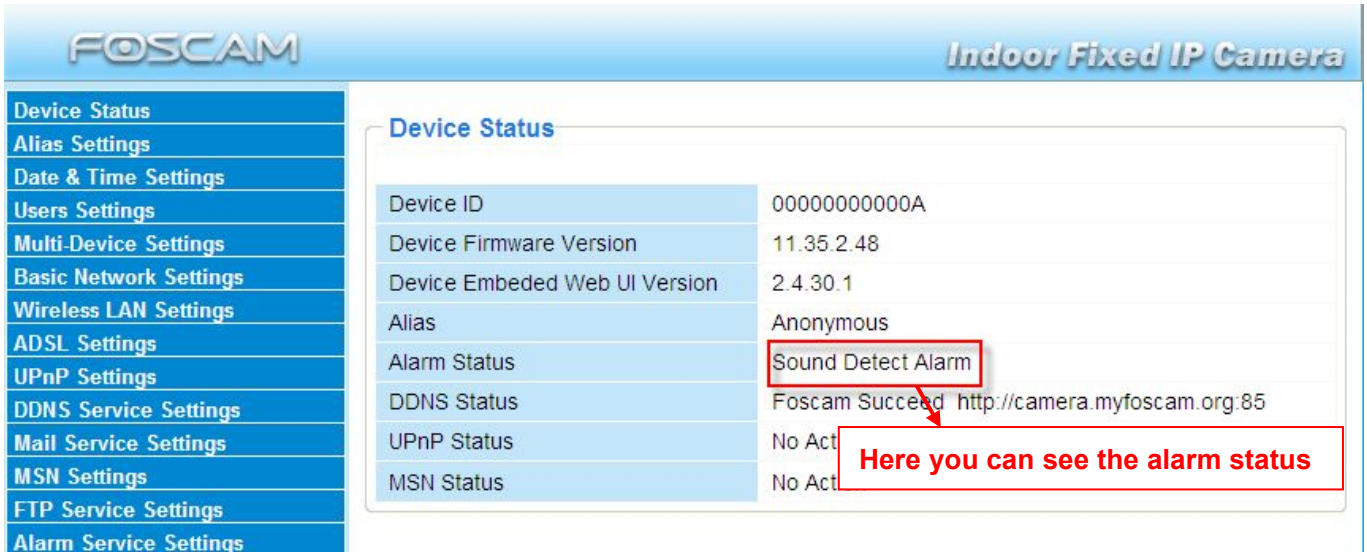


Figure 3.40

There are four alarm indicators:

1) Camera will send emails when motion/sound is activated.

If you want to receive images when motion is detected, you must set **Mail Service Settings** first. (Figure 3.31) Then set motion alarm as follows:

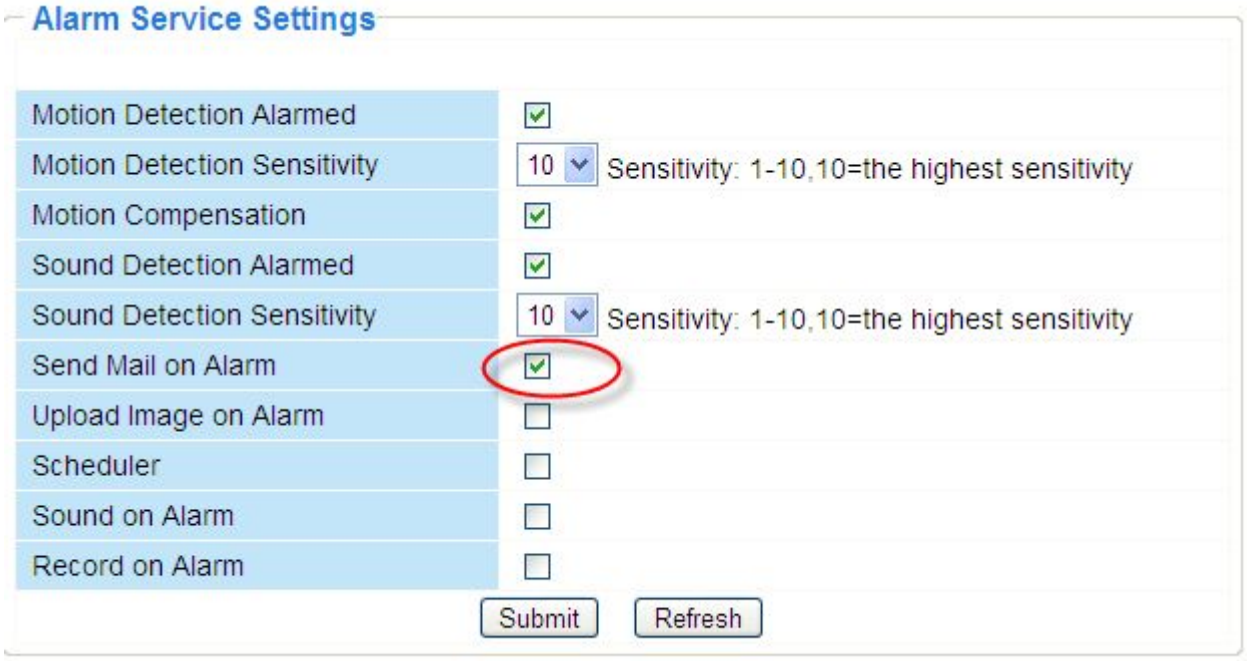


Figure 3.41

2) Upload images via FTP server when motion/sound trigger.

To upload images to an FTP server when motion/sound is detected, you must set **FTP Service Settings**(Figure 3.36/3.37) first and then set motion/sound alarm as pictured below

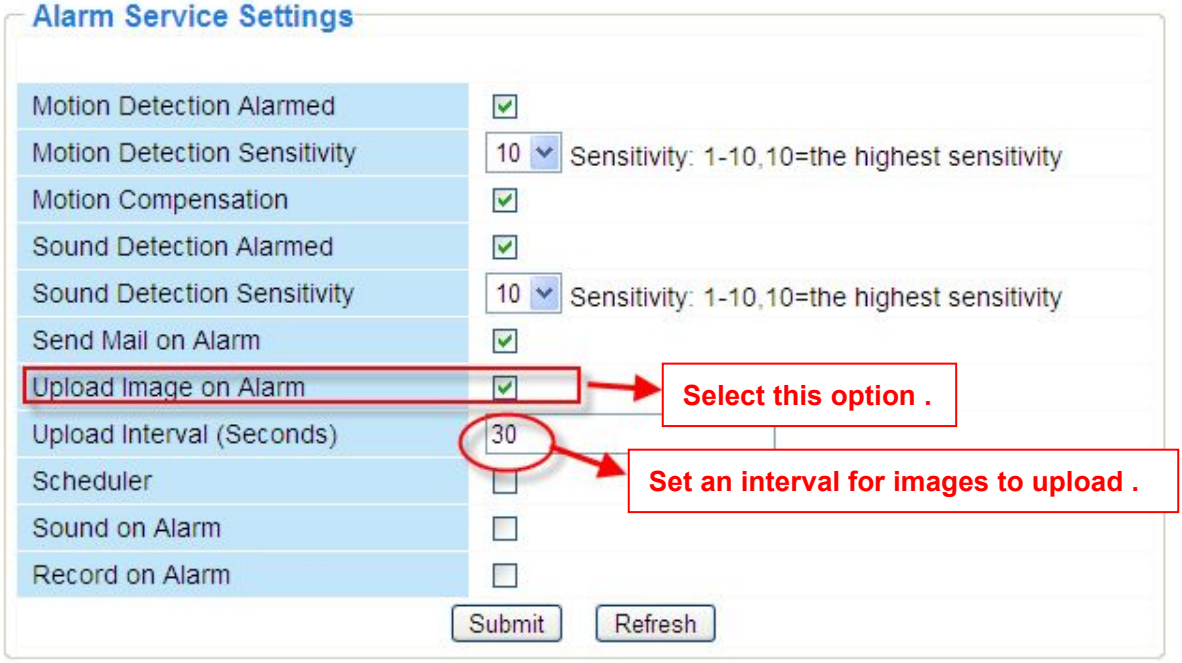


Figure 3.42

3) You can hear the beep sound when the alarm has been detected.

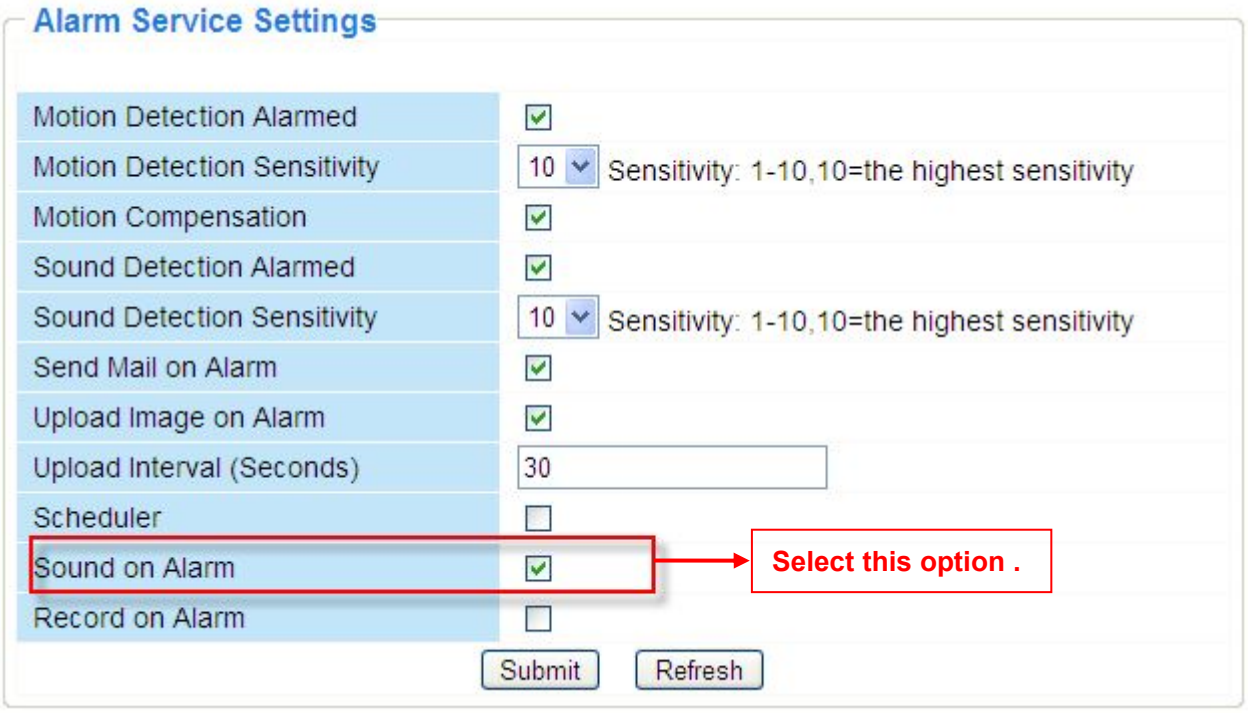


Figure 3.43

4) **The camera will record automatically for one minute after motion/sound is detected.** You can find the recording file in the folder which you set previously. (Figure 3.6)

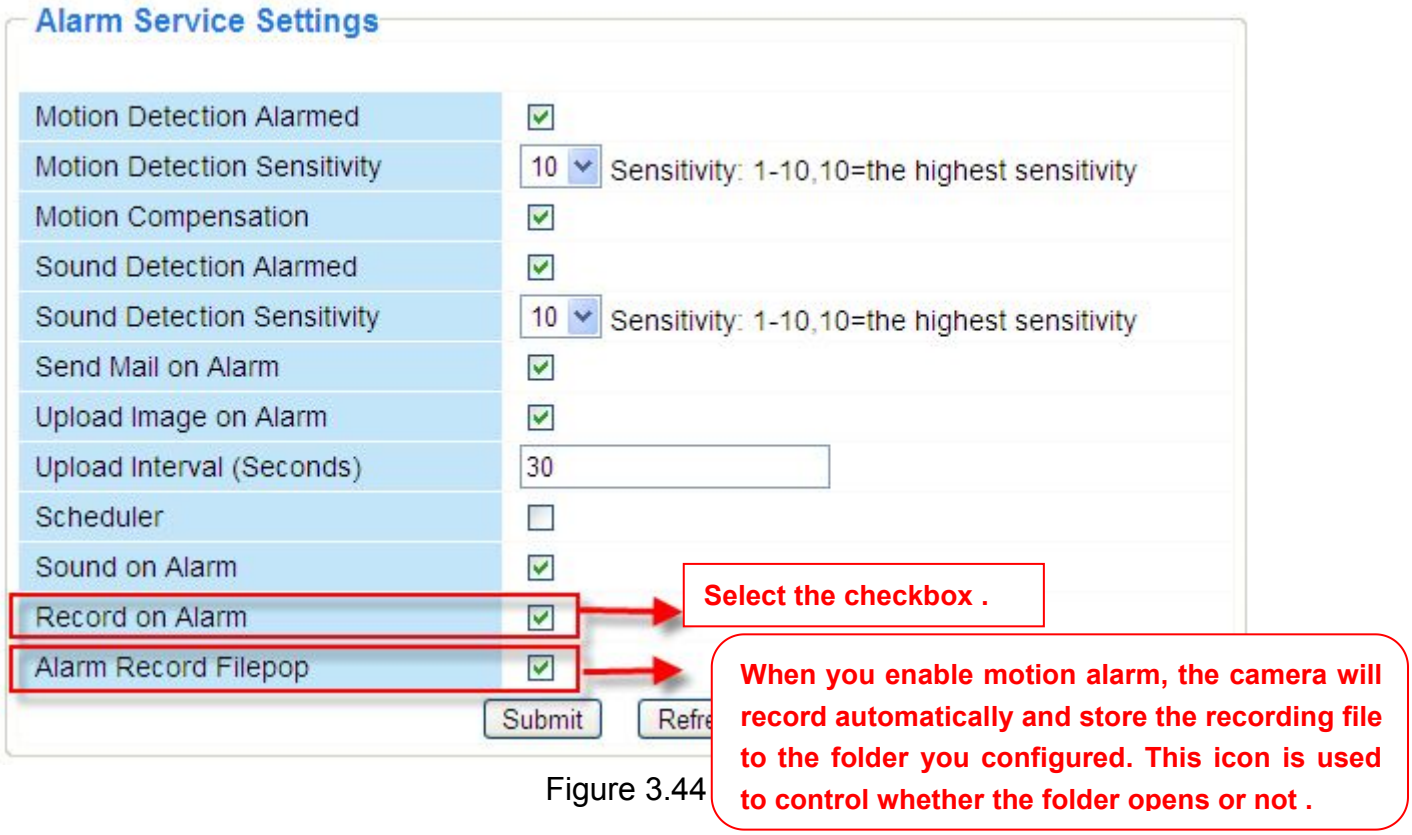

Alarm Service Settings
Motion Detection Alarmed
Motion Detection Sensitivity
10
Sensitivity: 1-10,10=the highest sensitivity
Motion Compensation
Sound Detection Alarmed
Sound Detection Sensitivity
10
Sensitivity: 1-10,10=the highest sensitivity
Send Mail on Alarm
Upload Image on Alarm
Upload Interval (Seconds)
30
Scheduler
Sound on Alarm
Record on Alarm
Alarm Record Filepop
Select the checkbox .
When you enable motion alarm, the camera will record automatically and store the recording file to the folder you configured. This icon is used to control whether the folder opens or not .
Submit

Figure 3.44

Alarm Scheduler:

Here are two ways to set the alarm.

1) Alarm at any time when motion/sound is detected.

Don't select **Scheduler**. Click Submit and the camera will alarm at any time when motion is detected.

Figure 3.45

Another Way: select Scheduler, and click "set All", you will see all time boxes turn blue as in the following picture. Click Submit and the camera will alarm at any time when motion is detected.

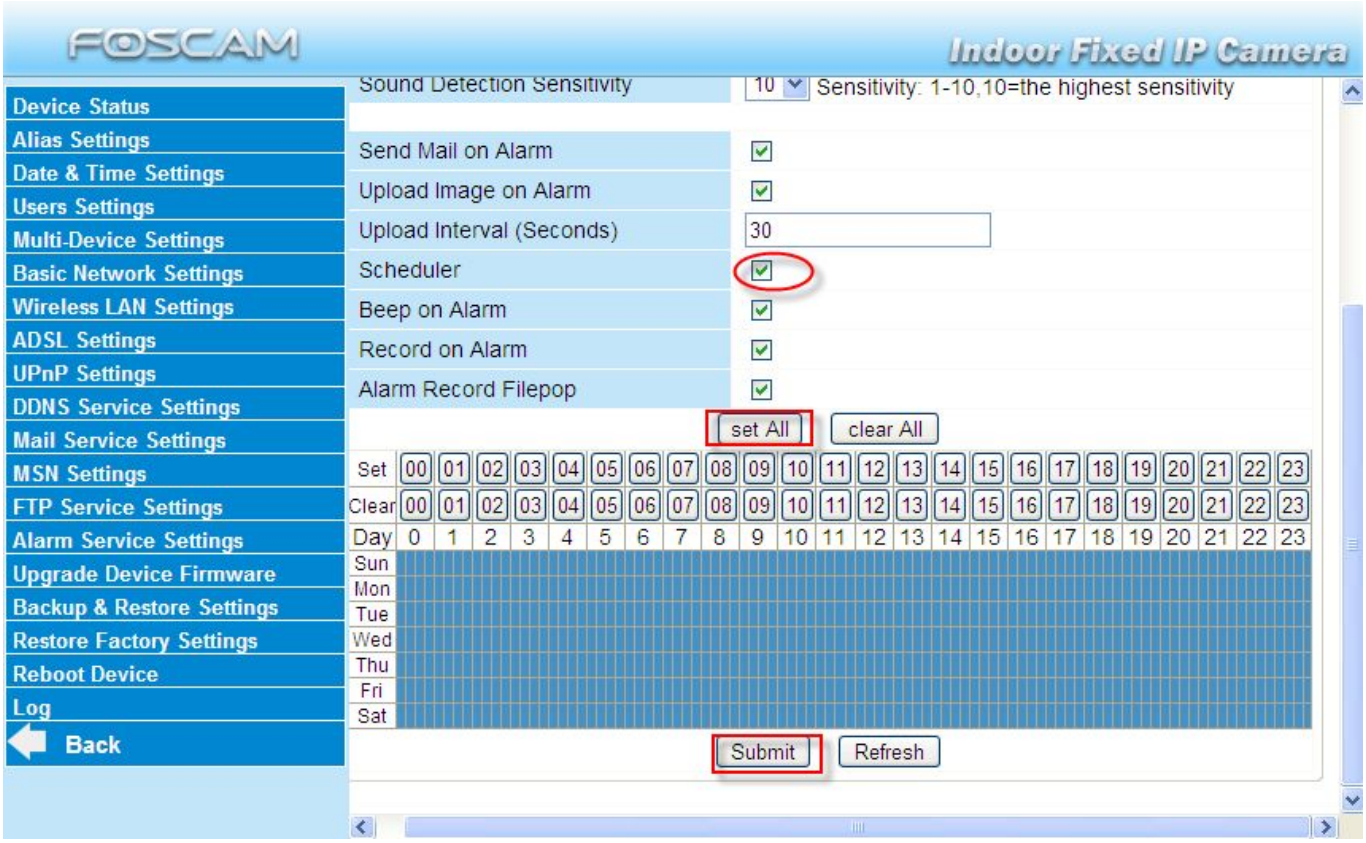


Figure 3.46

2) Specify an alarm schedule.

If you want the camera to alarm during set times select **Scheduler** and set time range.

If you want to select one serial area, you can click any number between 00 and 23 on the first row, the corresponding column will be selected and it will turn blue. For example, click the number “06” on the first row, you can see the column turn blue. That means the camera will alarm when motion/sound is detected between 6 and 7 o’clock every day. Click the number“06” on the second row, you can cancel the corresponding column you set. And it will turn grey.

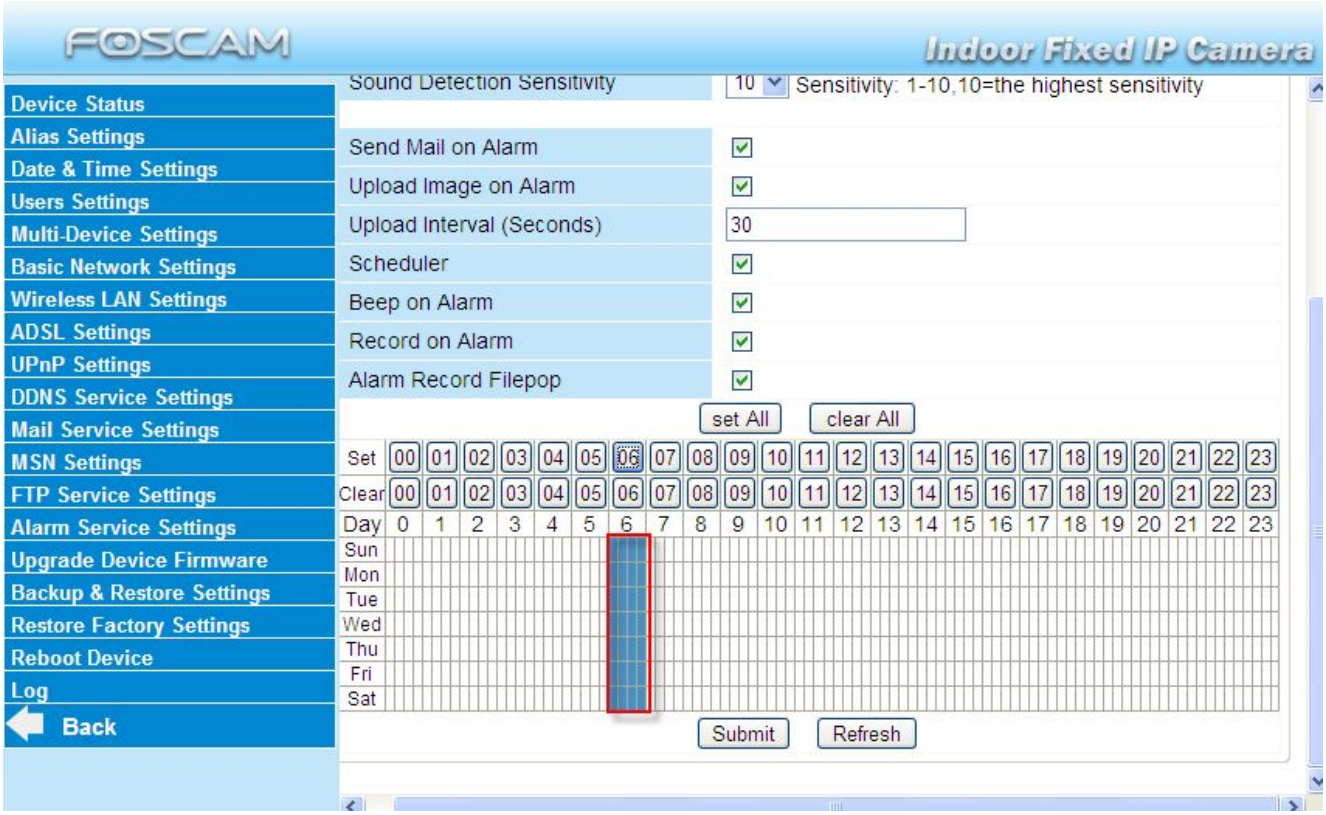


Figure 3.47

If you want to select discrete area, you click the left button on the box of time range. It will turn blue. If you want to delete it, just click the left button and it will turn grey.

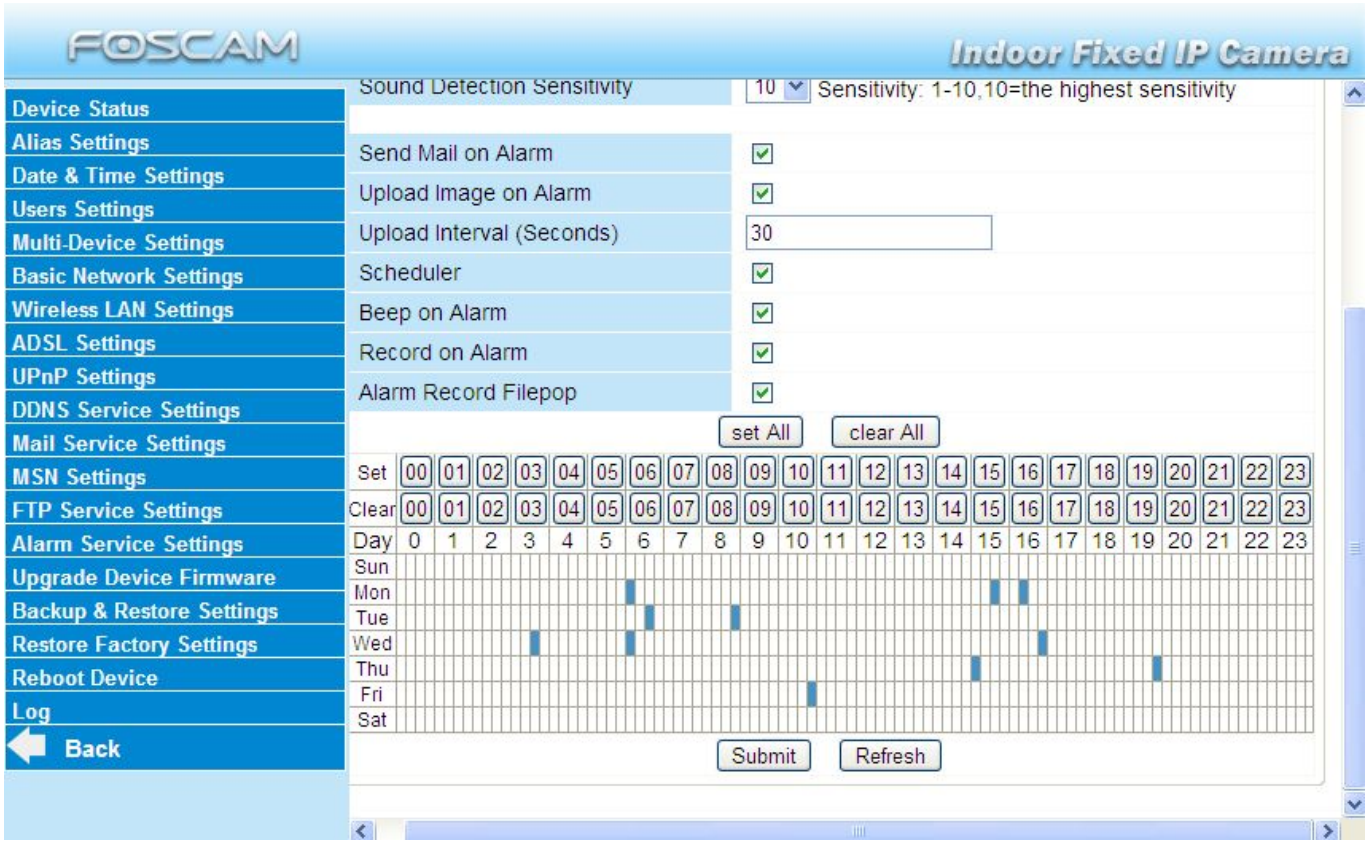


Figure 3.48

3.15 Upgrade Device Firmware

When you upgrade the camera, please upgrade system firmware first and then upgrade the Web UI.

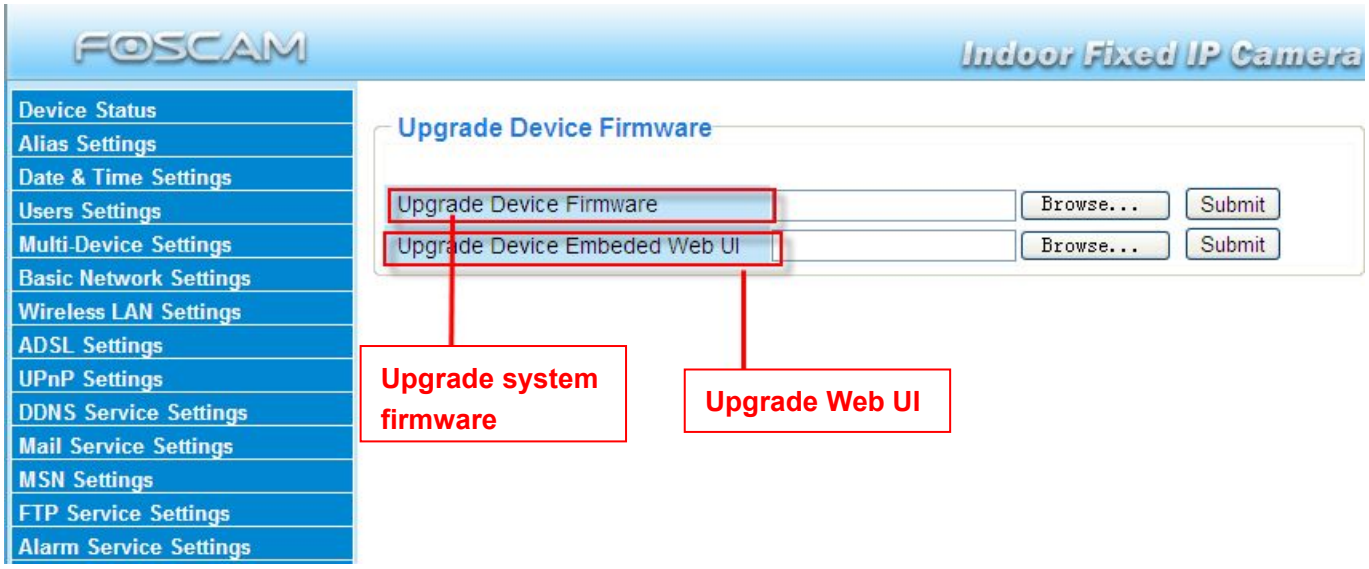


Figure 3.49

Click **Browse**, choose the correct bin file and then click **Submit** to upgrade.
Don't shut down the power during upgrade until the IP camera tool finds the camera again.

Upgrade Firmware by IP Camera Tool

Double click the IP Camera Tool shot icon

, select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.

Figure 3.50

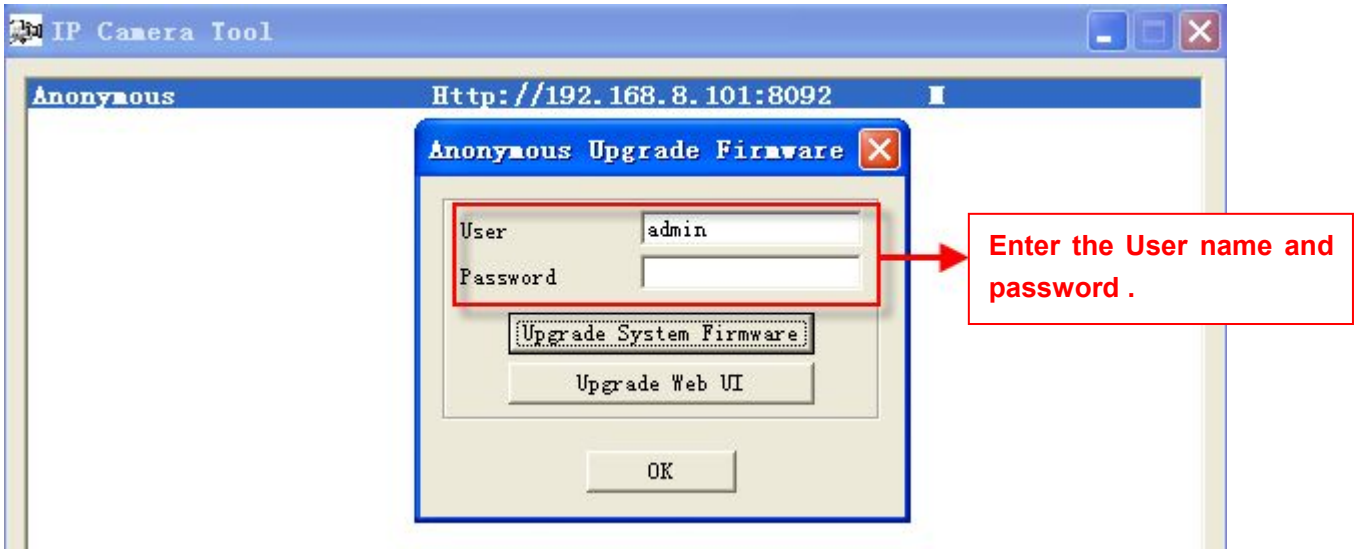


Figure 3.51

CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

NOTE:

1) Please ensure you have download the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before you upgrade.

2)Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.

3) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device Firmware.

4) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.

3.16 Backup & Restore Settings

Click **Submit** to save all the parameters you have set. These parameters will be stored in a bin file for future use. The bin file can be reloaded to restore the parameters that were set.

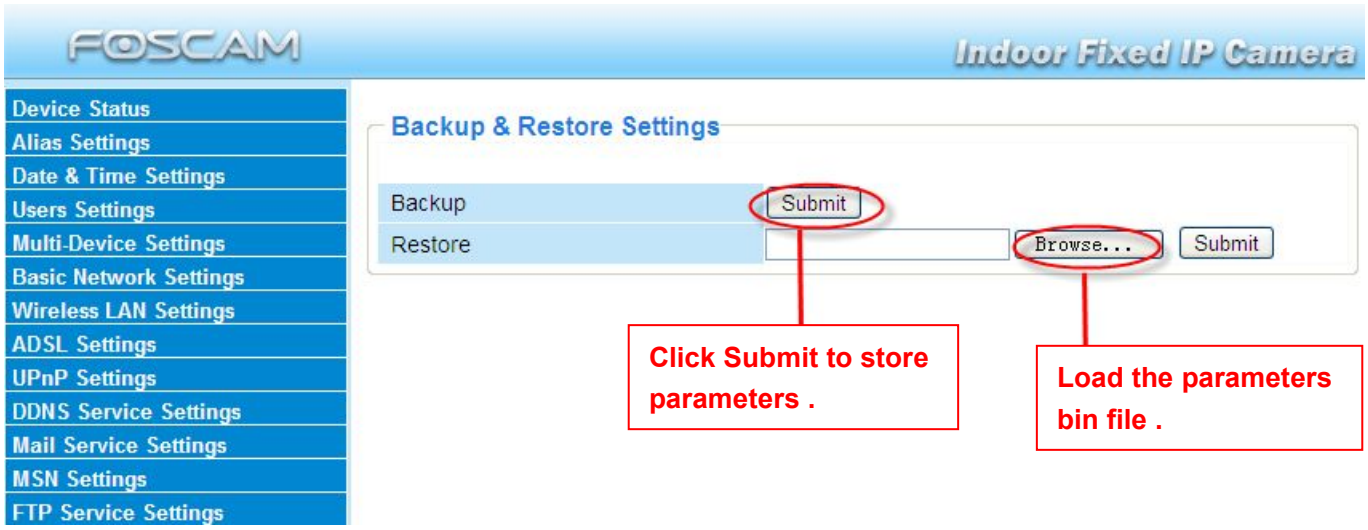


Figure 3.52

3.17 Restore Factory Settings

All parameters will return to factory settings if selected.

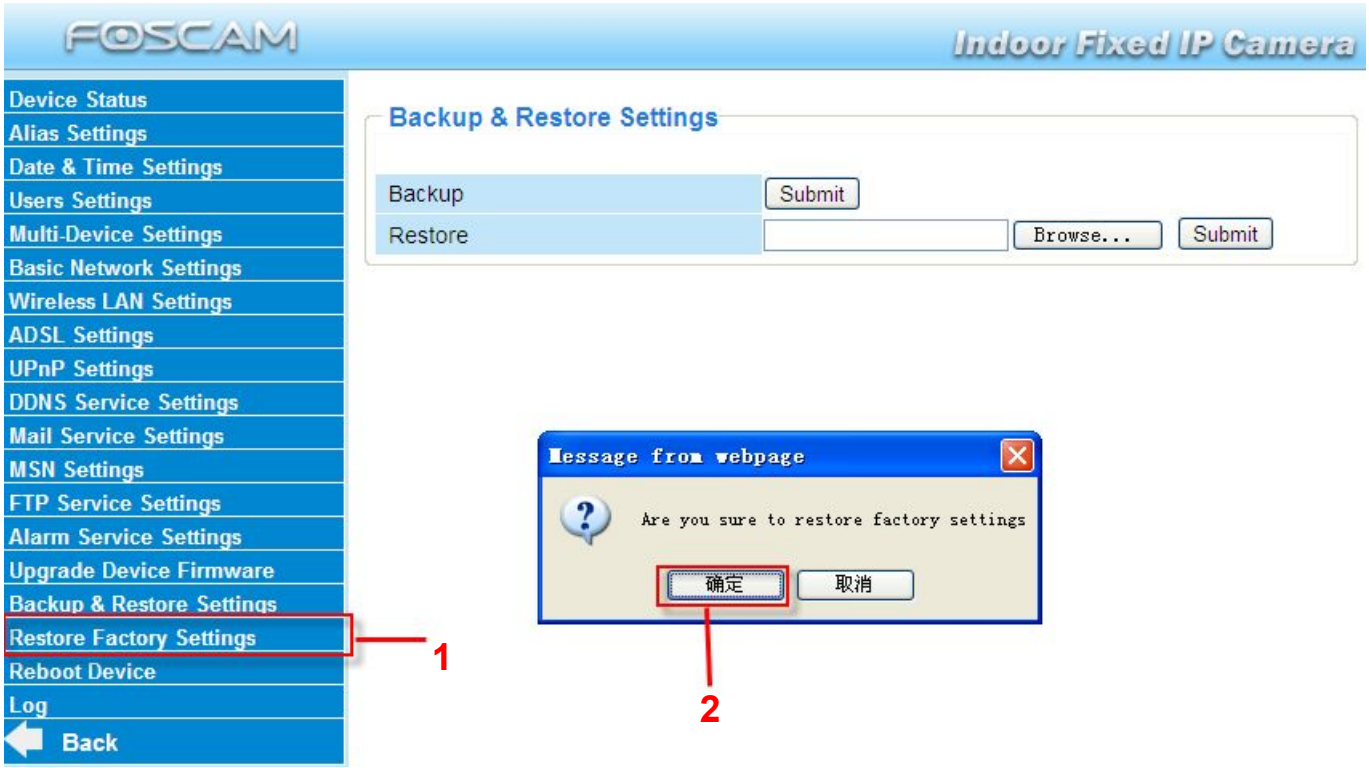


Figure 3.53

3.18 Reboot Device

Click **Reboot Device** to reboot the camera. This is similar to unplugging the power to the camera.

3.19 Log

The log record shows who accessed the camera and when. (Figure 3.54).

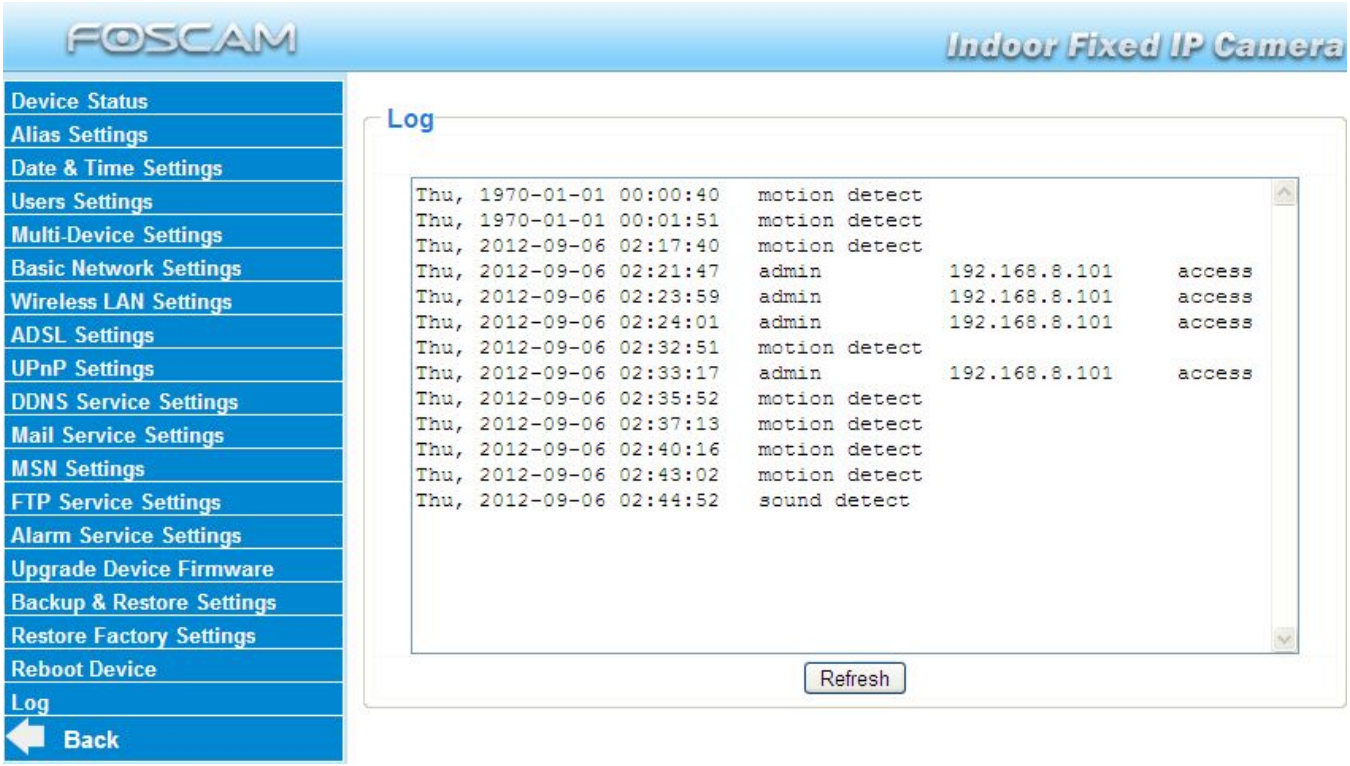


Figure 3.54

3.20 Back

This will take you back to the surveillance window.

4 APPENDIX

4.1 Frequently Asked Questions

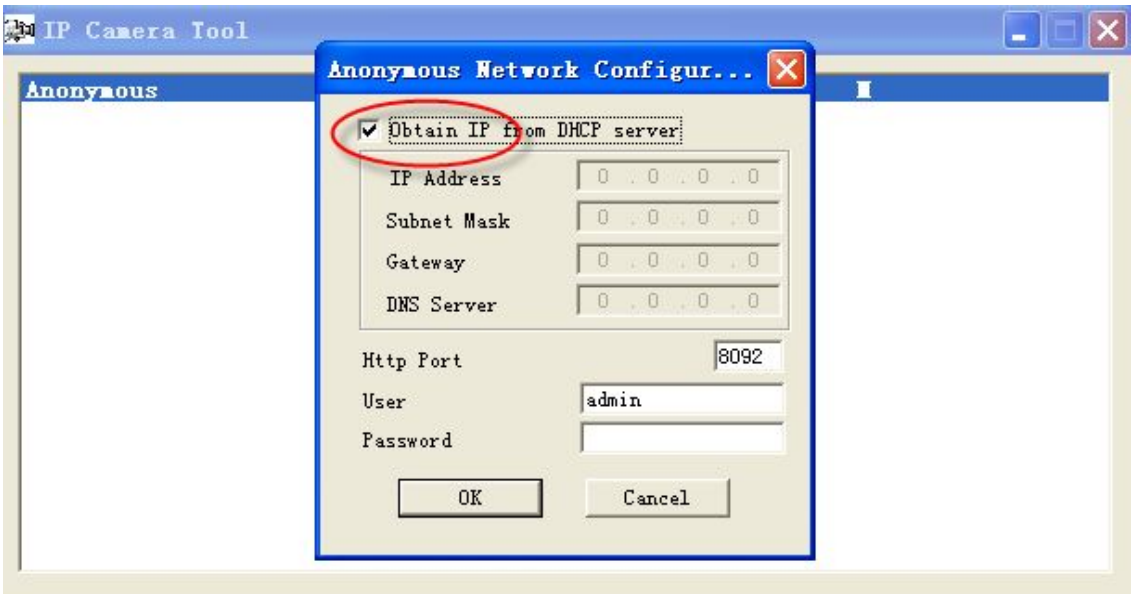
NOTE: Always verify network connections are working by checking the status of the indicators on the network server, hub and network card.

4.1.1 I have forgoten the administrator username and/or password

To reset the administrator username and password, press and hold down the RESET BUTTON for 10 seconds. Upon releasing the reset button, the username and password will return to the factory default administrator username and password. Please power on the camera before reset
Default administrator username: **admin**
Default administrator password: No password

4.1.2 Subnet doesn't match, dbclick to change

If the IP Camera Tool shows the error "Subnet doesn't match, dbclick to change!", select **Obtain IP from DHCP server**.



If this error still exists after obtaining an IP from the DHCP server, check the local area connection of your computer and verify the subnet and gateway of the camera which should be the same subnet of your computer.

4.1.3 No Pictures Problems

Video streaming is managed by the ActiveX controller. If the ActiveX controller isn't installed correctly you will see no video image. There are two ways to resolve this problem:
1) Reinstall "IP Camera Tool" and ActiveX controller（recommended）.
2) Download ActiveX controller and set the security setting of IE: IE browser→Tool→Internet Proper→Security→Custom Level→ActiveX control and Plug-ins. The first three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored. As follows:
Enable: Download unsigned ActiveX controls
Enable: Initialise and script ActiveX controls not marked as safe
Enable: Run ActiveX controls and plug-ins

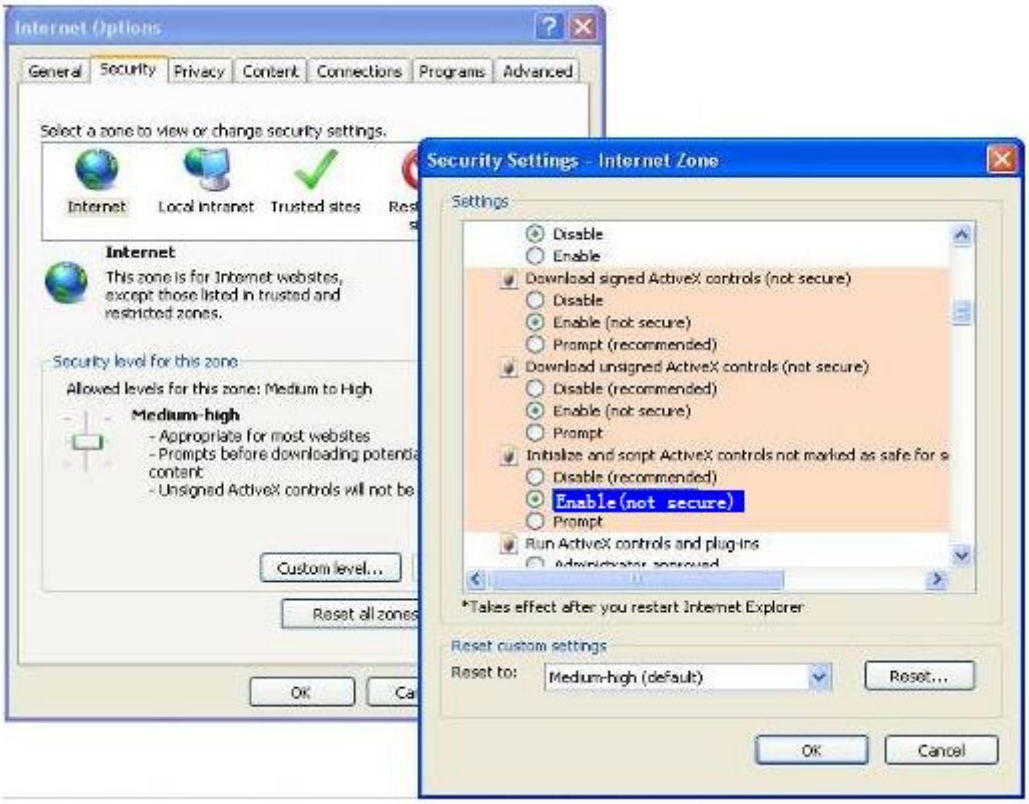


Figure 4.1

If you allow the ActiveX to run, but still can not see living video and a red cross in the centre of the video. Please select another port number. Don't use port 80, use port 85, 8005.etc.

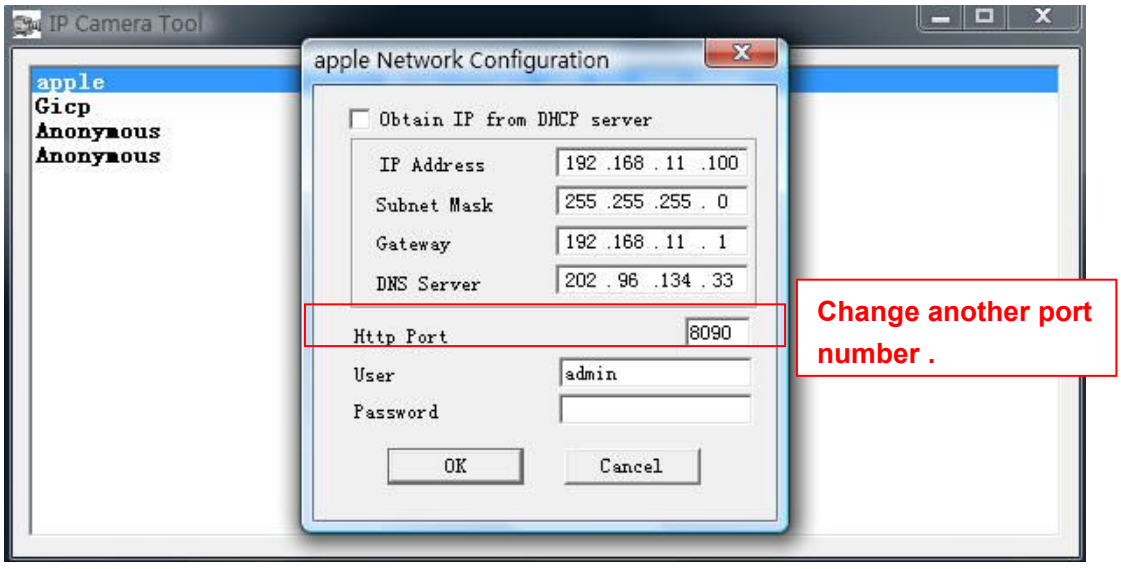


Figure 4.2

NOTE: Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you cannot see live video, try shutting down the firewall or anti-virus software and try again.

4.1.4 Can't access IP camera on internet

Possible reasons why camera is not accessible on the internet:

1) ActiveX controller is not installed correctly

2) The port which the camera uses is blocked by a Firewall or Anti-virus software. Try changing to another port number. (Figure 4.2)

3) Port forwarding is not successful (Figure 3.30)

Double check these settings and make sure they are correct.

4.1.5 IP Camera Tool could not find camera's IP

Verify that the network cable is securely fastened to the camera.
Make sure that DHCP is enabled on your router, do not enable MAC address filter.
Make sure that the firewall or anti-virus software does not block the camera. You can add the camera as a trusted site on your firewall or anti-virus software.

4.1.6 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be fail to do port forwarding automatically because of the firewall or anti-virus software. It may also be due to the router's security settings. We recommend manually configuring port forwarding the camera can be viewed on the internet.

4.1.7 Couldn't find the shortcut on the desktop after install IP camera tool

If you use Windows7 or Vista and the shortcut is missing after installing the IP camera tool, check the path of IP Camera program.
For example, if it was pointing to C:\Windows\System32\IPCamera.exe.
Please fix this by pointing the shortcut to the correct path C:\Windows\SysWOW64\IPCamera.exe. After this you should be able to use the shortcut without any problems.

4.1.8 I can't change the record path

When you use Windows7 or Vista, you may be not able to change the record path because of the security settings of computer. Please add the camera as a trusted site to resolve this issue. The steps are

IE browser→Tool→Internet Properties→Security→Trusted sites→Sites→Add

4.1.9 I can't find multi-device settings and record icon

Record and multi-device functionality are controlled by the ActiveX controller.
These functions are not available in Firefox, Google Chrome and Safari.

4.1.10 Camera cannot connect using wireless

If your camera cannot connect wirelessly after you set the wireless settings, unplug / plug the power cable. (for more details: **Wireless LAN settings** in **Chapter 3.7**)
Usually, camera can't connect wireless mainly because of incorrect settings.
Verify that the SSID is correct; use the same encryption for router and camera. Share key should not contain special characters, only word and number will be better. Disable MAC address filtering.

4.1.11 Can't see other cameras listed in multi-device when using remote access

If you want to view all the cameras via the WAN, verify that each camera added in the multi-device settings can be accessed by using the DDNS name and port number. Use the DDNS domain name not the camera's LAN IP. (For more details see: How to add cameras in WAN)

4.1.12 Only see black screen or undefined characters when using remote login

If you could access the login page remotely, this indicates that your DDNS settings are correct. If you are unable to see live video but only some undefined characters, this may be due to the internet speed issues or the camera using Wi-Fi.

4.2 Default Parameters

Default network Parameters
IP address: obtain dynamically
Subnet mask: 255.255.255.0
Gateway: obtain dynamically
DHCP: Disabled
DDNS: Embedded FOSCAM domain name
Username and password
Default administrator username: **admin**
Default administrator password: No password

4.3 Specifications

ITEMS		FI8909W
Image Sensor	Image Sensor	High Definition Color CMOS Sensor
	Display Resolution	640 x 480 Pixels(300k Pixels)
	Lens	f: 2.8mm
	Mini. Illumination	0.5Lux
Lens	Lens Type	Glass Lens
	Viewing Angle	60 degree
Video	Image Compression	MJPEG
	Image Frame Rate	15fps(VGA),30fps(QVGA)
	Resolution	640 x 480(VGA), 320 x 240(QVGA)
	Light Frequency	50Hz, 60Hz or Outdoor
	Video Parameters	Brightness, Contrast
Audio	Input	Built-in Microphone
	Output	Built-in Speaker,with a audio jack
	Audio Compression	MJPEG
Communication	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	HTTP,FTP,TCP/IP,UDP,SMTP,DHCP,PPPoE,DDNS,UPnP,GPRS
	Wireless Standard	IEEE 802.11b/g/n
	Data Rate	802.11b: 11Mbps(Max.) 802.11g: 54Mbps(Max.) 802.11n: 150Mbps(Max.)
	Wireless Security	WEP & WPA & WPA2 Encryption
	Infrared Light	5 IR LEDs, Night visibility up to 5 meters
	Dimension	100(L) x58(W) x38mm(H)
	Gross Weight	700g
	Net Weight	464g (accessories included)
Power	Power Supply	DC 5V/2.0A (EU,US,AU adapter or other types optional)
	Power Consumption	5Watts (Max.)
Environment	Operate Temper.	0° ~ 55°C (32°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
PC Requirements	CPU	2.0GHZ or above
	Memory Size	256MB or above
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista/Windows7-32bit/Windows7-64bit/ Windows8-32bit/Windows8- 64bit/mac

	Browser	IE 6.0, IE7.0, IE8.0,IE9.0, Firefox2.0,Firefox3.0, Google Chrome, Safari or other standard browsers
Certification	CE,FCC	

5 OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered.
If you have problem with FOSCAM IP camera, please first contact FOSCAM reseller for solving the problems. If our reseller cannot provide service, pls contact our service department: tech@foscam.com .